FINAL

ADDENDUM NO. 2 TO SITE 14 SOUTH CORRECTIVE ACTION PLAN AND

ASSOCIATED WORK PLAN FOR

FDR UNDERGROUND STDRAGE TANK INTEGRITY TESTING

FORMER NAVAL AIR STATION MOFFETT FIELD, MOFFETT FIELD, CALIFORNIA

> Contract No. 358773-03 (3-6000) Tools Order 0037 ECN EAT1, 0009-0007-0003A-3



Propaged for BEAC PND West

> Tan Burgo, CA 20380 Perpared by

Ballelle Street metal Enteralise Department 980 Aug Arenas Calendare, Oder (1991)

February 13, 2000

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FOR UNDERGROUND STORAGE TANK INTEGRITY TESTING AND ADDITIONAL SITE ASSESSMENT

FORMER NAVAL AIR STATION MOFFETT FIELD, MOFFETT FIELD, CALIFORNIA

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63 Well Construction Procedures and Materials

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57 Reporting Actor Res

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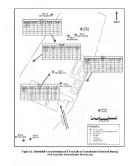
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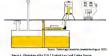
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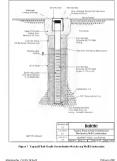












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Table 2 Summary of Well-Construction Details for Proposed and Exerting
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704 P	43	48	50.2	(3)	
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FINAL

SAMPLING AND ANALYSIS PLAN
(FIELD SAMPLING PLAN) GENERALLY ASSUBANCE PROJECT PLAN)
FOR ADDERBUM NO. 270 SITE 14 SOUTH CORRECTIVE ACTION
PLAN AND ASSOCIATED WORK PLAN POR UNDERGOUND
STORAGE TANK INTEGRITY TESTING AND ADDITIONAL SITE
ASSESSMENT.

FORMER NAVAL AIR STATION MOFFETT FIELD, MOFFETT FIELD, CALIFORNIA

> Tad Onfer He: 8617 E: BAT1 8000 6817 0065

> > record for

HEAC PMG West 1405 Tragge Head, Salte 100 Son Buoys, CA 81344

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SAMPLING AND ANALYSIS PLAN (FIELD SAMPLING PLANQUALITY ASSURANCE PROJECT PLAN)

FOR ADDENDUM NO. 2 TO SITE 14 SOUTH CORRECTIVE ACTION PLAN AND ASSOCIATED WORK PLAN FOR UNDERGROUND STORAGE TANK INTEGRITY TESTING AND ADDITIONAL SITE

> FORMER NAVAL AIR STATION MOFFETT FIELD, MOFFETT FIELD, CALIFORNIA

> > Test. Order No. 6817 BCN: EATL-6689-9117-8663

> > > Printery 2006

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Elements of the UFP-OAPP and EPA OA/R-5 in Relation to this SAP (Continued)

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Papers 1) Project Organisation Chart

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TABLES

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ATTACHME

FINAL

SITE HEALTH AND SAFETY PLAN

FOR ADDENDUM NO. 2 TO SITE 14 SOUTH CORRECTIVE ACTION PLAN AND ASSOCIATED WORK PLAN FOR UNDERGROUND STORAGE TANK INTEGRITY TESTING AND ADDITIONAL SITE

> FORMER NAVAL AIR STATION MOFFETT FIELD, MOFFETT FIELD, CALIFORNIA

> > Condroct No. F66771 et D 0000 Teal: O 2602 En. 6617 DC E RATE 6010 1607 0101

> > > Frequent for FILAC PNG Work BIS Fragres Board, Soile Pit San Glassy, CA \$15500

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February 13, 2000

APPROVAL PAGE

FINAL

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STORAGE TANK INTEGRITY TESTING AND ADDITIONAL SITE
ASSESSMENT ACTIVITIES

MOFFETT FIELD, CALIFORNIA

Task Order No. 0817 DCN B 41 L-4809 1917 0803

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Name and Contact Information Electricity Wells

1918 Clay Street Sade 1400 Oakland CA 04012 (9104 622) 2460 oxylly Santarbounds or enry

U.S. EPA Project Manager Alexa Leo

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Water Common Control Streets

25 Haw flower Street, SPD 7-G Son Personano CA 34405 (415) 970/20141 Law Allmathons pow

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Section 7.0. MATARIBUSES ASSESSMEN

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3.2 Hazards Associated with Battelle Tanks

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	Potential to ever possessian product has during throug	That until human o predistantial test present (content over jest have as feel cycles type in section to may present the standard feel procedulty.
	Outparing accupated has polarital to lash fast dueing a reasonable in the lasting Q 190% of rermal ages has a messure	Entroy (accepted of 100- fan satespeeder and absorbed raps may fine dispenses s)*
Equipment To Se Vand	Imperior Esperences	Training Requirements
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Table 3-1 A cturky Hazard Analysis (Continued)

		CATE AND MARK STILITIES
Fraces Steps	Felentail Sufety (Kuckis Kanarda	X scoresage dad Controls
1 Park contactor mix fautorio	Velacle could listatement or considera	Use spotteer whose prestate on whole if needed Energy that applies have here to communicate with its res of vehicle
mite de ut cale.	Lenakon otrolf amelina hulla huani	
2 United equipment term valuate	Calling of stributants from volucie could game stress to worker	Use proper lafting techniques such as leaving the hards straight, follogs such legs here has branches and quiting help as has removed in the physical product of the hard former in the first heads of most former in the product of the hard former in the product of the hard former in the product of the high contract one hard nearly in high.
3 Hore sept make coopside servy look to	Housiling of autonomish could be too fruits to to believe	Corp unformants on my used for the mount's storage of the sentences. Our energy when provided and adjust for constant the new where willings pother flows are no problem pelon or mousture. But does come the weeker to taken to manufact product of the networked Cost constantion. Seen after weekers of sentences to make the mount to come for leading persons than 50 poursits us they people to corpy.
	Shy top and full hamon's could be yoused.	Variably integrated with some and made, having also as through aby they and full baseds (Doby work or wolfstagebrecking) and we discharge the relationship to regions and applications of the state of t
6 Europy and made with his	Window could be strack by vehicle	Wing high maintify influence such at all treat in with cases. Make you content with openings of valueling Parket observes a maintiful when merevy or more parterment is convey or action forcused on the bask exit may not be aware of mainty bud's. I the bud's contents or humanism of recomment to being factor away from warken.
	Use of sproyport is nock underground related and enteralise or life represe employees to paint forces or part sheet.	Fielding man chartness confunctions on one of patch Autoria Material Sudity Data Shark (MEEGs). Moreor yeark typey paint consistent at anything person.
	Material control white the control of the control o	Use following are retail color codes for shifted Time. Water Red. Electrical Tailor. Gas Green. Escret
	When everyong states wereless could tray and enquircheds	Carry Makes to leafter or curves high finder puncture group and namy has to sale all leafly. Basson flashall tips are preaded to ward proposite half wreak.
	Explaination of wood on stakes presents purchase and reductor hampets	Resp stake to provided of proceed. We or healther planner. Use continue has more tools to provid stake m.
Equipment To the Used	Japatin Legaments	Training Logarization
Hard tools	ProTest counterwork Variably car's car	Talgate safety receiving Side uponfur constraint in Manari observed on and communication.

n	AX L	BOXT	AL	LA	KOIT	

Table 3.1 Articly Report Analysis Continued

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relade curyent fall for each	servefung	that spotted in any how to communicate with its reducte
with the same of t	Lore hon could cousin a telline house	Look which is at an an last will cot obtain the
2 Distord spr://west.and srabes.de	Loof wold have staffed lineary temport or in picture had linear, arrang load to be unstable	If it all has skilled or be-down are possely actal set stand note back or last. If committy means had from conduly and good to be any equipment where has down in hong amounted to powers his falling on that cale.
	Litting apagement and numerals faces solucie could consecutivae to weaker	Our proper lifting becomes a rach as beepeng of thought, hitting with large involves treating and help to have record belleyther over introducted applyment. Doe hand treat of resolute for Italia. then 50 normals you have people to left.
	Cub and abecome real occur while revenue equipment and release	Use budder gloves when moving objects with a creduct pourts
	Big to y and lidd hunaria could be present.	Visually copied work of was self mask, homeon- alternate sky less and fall homeon Only with willing the oblig confuse finathore the sense; it willing to be support employing soften Opening, such as an own or distanter meant to opening and All springer has then 13 arches to describe an helion to soft, he masked in Suprassid and helion to soft, he masked in Suprassided.
2 impacting ng and namorahay ann.	lar, pres vegendar el qual ververelle per en el control medical un unich) el chilos percentente el control canada veloce to le coponed to basadi, percadal with spenden reschuseal denomi	Limiter Maring and all attachmists of requesters in respected for the computed prices and federally in quantities (recorded and the finding in quantities) (would have the first of the first of the prices are quittered, to shad and a first of the first

elutinetera cum unife ted hasilem moletera W. Spinester.

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Table 3-1 Activity Hazzol Analysis (Continued)

Principal Steps	Fotontial Safety/Kraffs Higgsin	Focus mended Custrals		
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		And stone or buspering bob metada nangular with a conflict metal family of the dall of Pipe dall.		
		such some, wager and stanfer falling tool behalf he with syluction such as their preventional partial standard services and the standard services and should be fall at a self-location or the proof in the second to present representative particles on their second to present representative particles on their second second second representative particles of their second second particles and second second second second second second second second second second second second particles and second second second second second particles and second second second second second second second second second second second second particles second second second second second second particles second seco		
6 Hard appealing	Mand outpering figuring or	Firm's booms and two proper position and back support		
S feet of each hereage and phose who hogy a per half per a feet half per a feet more many	you have held caree upon to sever held.	while hard-separate departs to preshabing foreign homeon if hard asperate band insert and sen term yrophs of necessary to memory capes from hale 18 pand to long means that are a reliese helicon photoning present with piles used to head or present orders.		
	Must unquestig flig proj or yout-habing providing younds of time could wrone match, stocks.	Manker visually page and full per and page of growing pulls fishered portion of natural hand originately to maneural featuremy themsome information consider contractions with a property of the page of the page of the change of the page of the page of the page of the feature of the page of the page of the page of the feature of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the p		
	Sky to y and full hazards could be present due to brotheless	Frohert, all open brooksiles as any open enganciers of left wasteneded not than y open, all brooksiles should be falle before and of days:		
	Worker credit he abruck by volvable	Plear high-variedity effective vash at all times a work seen. Halla ever-restact with operative of whiches if accounty judges builting solar for realisting to accounty judges builtin controls or accommon with the Today Content Flam.		
	Was at hand books	Impact of tools for Justice before on the net too factorial within each and by "not fit merces. I Manuschild pure and fallow undepending pression just belief had been to mission before any throne in climate made combined are a body filter or advance or as his on Justician produces any other factorial modern are mercent pagent or purpose or pression with health or present pagent or purpose or pression with health and the pagent of the purpose of programs with health and the pagent of the purpose of the pagent of the pagent pagent pagent or purpose or properties.		
		and English. When safety plants with safe should and secure all offers amount you to week safety plants when more a securic r. When safety plants with safe shelly an accome all others amount you'to week safety plants when		

(4) MOREPORING WITH DOTTAKE ATTOM

Table 3.1 Articly Report Analysis Continued

(4) MORPOSING WAY I DOTTALLATION Editoria B. Honorood of Controls

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		using a chiral. Youry all tools discord and outsity stread when not so some Give waventies as such stream on phone accords. On some according to the halout that the some which. When more according to a halout that the some
		presenting of its on the lappoint sends smalled health event and at lapson period for the water Shadle. But he was the health of the lappoint of lappoint of the lappoint of lappoint
	Worker craid be exposed to dwarred contaminants	Avoid spells Errory that spill decamp registers on avoidable Wear required FPE and responding production on spendied in the ORDY. Teach respective and underest our morn to say will determine solutions of FPE and responding protection. Supplying TPE properly and work house.
S Freehon and set we shall reg and strockade sepreprised.	Finisher to consecute the layered plan- valed cause registers to produce the housest each or chester when thereage to consequenced subdises to tapping my even as mobilities and world that as	De reference dell'en quale sey mels mes crists a sil- propriagion ha les morraphent and mes de found le supre sile des has less assessed fix hazards a conchazi hazar sel delating front and sey morred i de found ne supre sile della sile selle sile selle selle selle selle service del delating front and selle selle della selle sell
	OE sal currents	Indian reverge a felting is with the reals of tentil respective for large passesses themse reliable units and arouter betaution. Along a third the besides of a felting come below themselve posterization processes around to make high process. Check the imaginar force been of accesses at high process. Check the imaginar force been the start the sale incustring. Destinates all gassesques folions were used as falls up on reals which because. Gauge the finite is all that is 4 of cell offs, which tenues. Gauge the finite is all offs is 4 of cell offs, which concerns all when to working off highings is high tenue. The contents his to review.

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Table 3.1 Actorby Report Analysis (Canturnal

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64 MONEYOUNG WITH DATAMATER

Principal Steps	Fotottial Safety/Duality Records	Rocumounded Contrain		
4 Statup og ent yestom trikung	Transmitted hydrauth himse craftle inghem, namen selected floot handle floot little flooth would would floothed model with worked from the selected worked from a selected code sengment solid (code) menution,	Down the passessed set train in two of follow- says; must hospite all brokeds has in him placing or victions. Any derived beam or causes time market appear before make now in Termshelphy belt from a page most from only the Erons to that and in the appear of the properties. However, the facts all this of proud of systems of ANY fact and pages to the second of proud of systems of ANY fact and pages on smalley consides. Erons that any distribution on smalley and the definite placesses of the finishment of an expecting as personal beam the layer for recovered the ones ever the beam the layer for recovered the ones ever the beam the layer for recovering the conservation of the training of the contribution of the contribution of the contribution of the training of the contribution of the contribution of the contribution of the training of the contribution of the contribution of the contribution of the training of the contribution of the contribution of the contribution of the training of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contr		
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	Extration	Dilate molecular cannot be symbol and if the procured in the molecular of the whole death manus used and will know the whole for the contraverse thank any out, the contraverse thank for the contraverse thank any out, and the contraverse thank the first of the death of the contraverse thank the procured sheet jump shar and as the any provide been thank about the contraverse thank and the contraverse thank about the contraverse thank and the contraverse thank and the contraverse thank the contraverse thank and the contraverse thank the contraverse which are the contraverse thank the contraverse makes not the death of any other thank and contagency preserved can also be professed to the contraverse of the contraverse contraverse contraverse thank the contraverse contraverse contraverse the contraverse contraverse the contraverse contraverse the contraverse contraverse the contravers		
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Table 3.1 Article Second Analysis Continued

Table 3.1 Article Second Anabous Continued

(4) MONEYORING WAY CHAPTARY ATTOM

Frincipal Steps	Fotestial Safety/Koalik Horsoid	Freunzundel Certzek		
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	Workers would place bushes arts regress parks of any 20 keeps declared excell betterme entergland as recorning trackers gothe order at which trained asymmetric evident Worker available supposed to better.	cheffing douglast production has Careful of their specifies on survey park the net- ward boson cheffing or one yearling. Emen that open- making doubt all symbons all sounds yearling that all we plans are clear of fact, emony parts of myocamush, hollow shafes, or me, capes, arguments. These conjugate elements list, by in expression, of		
7 Horn leaves to	Worker credit he expected to york gornt Labour of homographic com-	Avoid placing Nords three to recovary multitarry. West plents; or appropriate X-org oversionly, shot. Our proper latter, her browner rath or because the hard		
Non-Jones to sampling location	atesta la mortari	shright, fifting with long horstup treating and portug- help when woming believelses or melatures and squip reset. Use hard trials of medical For Italia greater than 500 novembers on term complete in 145.		
	From up could make vertact with someone or something while hang current and are grane to also.	Weat please or appropriate for owner of groups or absent that may be vertainly so be more of provides. length of boxony		
F Mrs greak	Libray of endough reals wase closes to worker	Use proper lifting technic was each as leoping the high about thought, lifting with logs, herebrig technique and gesting help when evering beliefees or methods and appropriate like hand thought medical fee I laids greater than 50 possible on the people to lift.		
	Worker credit come into product, with produ	Avoid spills. Was designated FPE Sources FPE properly and wash hard a Avoid personalize fruit favores MSE's few point. If high in educational, was fruit mask when handless day recent.		
5 Josephale to sed	Labity of materials could more stream to seveline	Due propor follow techniques neck so beequig the heek afrogsts fifting with loop kending treating and perhap ledy when resource bulleyfolsov mislemals and spage mast. Due hand trade if peeded. For lastin practice flow 50 yearship was been people in Mr.		
	Worker/wald come arts contact.	than 50 possile on two people to left. A road spalls. Wear resignated 17% Lamove 17%.		

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Table 3.1 Article Second Analysis Continued Recognition of Participation in

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Table 3.1 Actority Report Anadous Continued S

	OD WILL DOVILG PREST				
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t Juga mili	Worker could be append to cleance! contemporis	When required PPE. The related PPE is it is present devoted with general-when the transplane has been dis elevations used callburgh where contrasticable as live to concentration, they will can be above held by this or come conducts to blank Varial respection and analous four conductors of all laterature instead of PPE and requirities profess to Concentrations extreme a faculty in contrastion. A read upole Demonstraji change upoly he are as published.			

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	Table 3-1 Activity	Hazard Analysis (Continued)	
	O) HAVE MADE	OVAL AND REPORT	
Pranquilligs	Petrotial Salety Health Hazards	Recommissi Costrols	
I Floripour warks note vertament (* 9. 35-gallon (rom, roll- nt) (m, vio.)	Lifting of waster certification clause of them for workers	Use proper lefting techniques section linegring i streeght, lefting wide legic blooking brinding and when mercury hollogitheney milestrate and equip hand basife of sealed. Par finally greater than 50 here geogle to left.	

West required 1955. Virtual improvious and auditor Law

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	spill decom mythm and equipment to day would feed a may become day serv. West we said back us backen seld. Aveal myteries to wake all. What of TVE Clean on all male proveduable South masses.
Lifting free life may onne ayan gerbollery	Efeatify and oreal peach purity stills or placing has believe from hit and from Weer leafter with pla-

Table 3.1 A study Report Analogy (Castronal

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wanderer will determine talection of PSE and more derivatech. Made and has "exted somers. Select hard beds to

daveg handling of playing her and found temperature.

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Table 3-1 Activity Hazard Analysis (Continued)

OV 12W MEDICOVAL AND DESPOSAL					
Pranțal Sirps	Patential Salety Health Hampie	Recommended Controls			
	Michelmonial heregonal to the nool conformation	Armal spills: Econom fact spill observate stopplies are erwickler. When a suprated ITE can be supership you deferm an operation in the 1961? Visual is supership and architectural recommendation of ITE-and supprasting particulars. Heaven ITE prograph and worth hards.			
	Deverturesation area may hecress alignmy	Vanidy respective oh ones and mark homeals are abundance by the self-work are facilities. Mainteen purper (homea-has as all work area if I expeliance-has pa- plets) wheeling was combination plants sheeking as estimately also now. Wen books with cond-backers.			
LD Load reviewes for hampert	Healing of volcanes can expose ay there is expey carefuling future levels to these allowelsess and punch punch	Science Service are restricted by speaked behalf I four Lindle of sear Lindle of a speage post who after earthylvin Sensited of the March on several teachers are subject to the Sensite of the Sensite o			
	Worker-could be street by reflection	When high-mail driver effection is not all all larges in work areas. Make upon models with operation of whiches Freshment observed a general of their locality flower clean to lawly strains. Our birth's workeds in harmonies of necessary to learn builder once from necessary.			
	Custames may look.	Import all combining gain to himsport (fitting ppl). Saumy popular and man growth mother excluding Employment beginns and man growth power with pool tracking to line. A most exportant to evolution! When again growthe PTE Glossing and polymer and properties. If the companies of the polymer and			
Designment To En Cond	Inquebre Jagairennets	Training Requirements			
FTX Hard tools	Profred manierance Vend pror is un	Talguir Safeti Markay Site specify contribute Heave for several contribute Heave characteristics and consumments to Lazzo			

(6) MCMITORING WELL LOCATION SERVEY				
Frincipal Steps	Petrobal Salety, Health Hererty	Remanandel Centrals		
I Full. contextor volcile at cite.	V elsele-socié het promotes on prométrage	Use specifies when positioning value of a last and all Escare that spatters leave how to communicate with farme of value to		
	London mail costs a helic hand	Locate relucious as and their will not abstract trailer		
2 Difficial approval. form velocity	Lefting of maleuranels force valuate would mean about to worked	The penger lefting techniques such as language for hack strength (Lifting with large Limitons terrating and getting bely when revenue leakage large readmanks and regularized Life hand track of resolute Per Linda greater. Hack 20 county on his countries to his		
3 More springering (supposed surrry local to	Shortkag of anticoreach round cause stock to warfast	George enthickness or mechanical by the constructions of the automated. Most study or these provided and adopted for controlled, this near where we obtain part that there are no med template for manufacies that, are come the author to this interview's reserved of the methods. One controlled to such to this interview's resoluted of the methods. One controlled them where the mechanical seared instruments must be control. Part for also granted than 30 promises have true people to accome.		
	they tray and full humanis could be prepared.	Venually suspect with same and reads, beareads revolutionable step top and tell hearing they work on unlines broken contains the three strong that it shape to be support employees table y to passage 18 review or a read a factories or set he wread and method. All operators loss that 18 relation on dispersion and all halors must be marked to be computed		
4 Suray Louis yesk pousis	Window could be abrack by vehicle	What high-weehility reflection rests staff trans in work areas Mills one weeker with speakers of volunter Frost an observor as moded what according to their performance is a wemper or often howard on the last and may act be or an of modely softle. Unit halfs controls or homeastern if according the performance from weekers		
Epripment To the Used	Inperior. Enganements	Training Requirements		
FFE Hard tools	ProFee resolution	Tolyce Lifey Hartog Six species consistent		

Table 3.1 Actority Ser

IN GROUNDWATER SAMPLING					
Principal Steps	Fotorful Safety Wealth Burnels	Haconomical of Controls			
t Park value of at well	Valuels could between or smoothing	Use spc feet when you taken you had a familed. Example the principle in the large flux of the communities with directed which			
	Lavelon orași emetr e treffer hepari	Lore to value for an area what wall not obstruct tealfor			
2 United way; ment and traterals from valueds.	Lifting of expressional tradecolin faces volvade could come stress to window	Use proper lafting bedring was neck as leavings the back strongles lafting with loop stamming to relating out of colors being when two roop in thing bearing mechanisms of equipment from looks greater from 30 provides over two yought to laft. Upo mechans will latting equipment lands stambility of latting expension lands are breaked to mean larger language or are likewed lands.			
2 Horn squy mod- and redends to forgouted samples; well known or	Handling of equipment could turne steam to we from	Use "use when walking so find those are no call for place me ridge that not record that wither its when it not con- certed all the appropriate Cell association flows when we also it is a few above the control of the con- trol and its to-core.			
	\$1.5 top and full hospits could be present.	Mantan que l'Arrectionpag es work orne. Marti se nomme all sécutified trep slap and fall housele form nomines anne. Mantan servan discountes en wind ann			
	Westur evald for struck by train time	Many layly markedly reflection with all those as well as many Many layly marked by reflection with all those as well a least to the processing of what will be clear to hopy steach. It bells to obtain or homeadan all necessary to keep the least to the workers or homeadan all necessary to keep the least to the workers.			
6 Home to will us do error and well not	Labrag of well visit conne credit cums back about.	Der proper follesst weltweigens mech es harryang für heilts rhought, folluge with Juny Amittung berofung und guftern holy of covers at ten hencey as in ten deliberat his handle hattenen owner mir selbged og organised. If genery are handle servans find vous in succession in openglike prodution by latching are brought property in over latent failing any worshe whole we deman or well vasified.			
	Wedne walk expenses share from one of trade	Integral all a pile for famings before use. On not use, demograf books soul, and tag "s stof service"? I tolerche tools to sour-was following retrosses: there is vasible souther famine shouly force, exhaust on aviswal. Enginethabilities possible, on post-time families devictors or someoners paying proclemy or processing with hands and families.			
	Westur could get hard coughs. he to see cover and loss when lifter cover.	Us- verten when lifting well realisered: Was leaden plants when handling comes			
	Well presented openings to present and world once pusy have present such as black waters hower reclaim and hole spales	When Jacker gloves when opening well over hopes, a journal or in this remove. If conside you journal, would form or error or from while woming gloves. Here faint- led available is bent proceed through the control of hims matrix (ARSS II) possible a present reducings to make their should come come!			
	Stell reads could have atmosphere housing if well has off passed and the vestil	If well has harbonedly continued high vapor contact and precent times hallow billing cover to made, place you've florings small agrange to covered or over and measure or			

IN GROUNDWATER SAMPLING					
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FIG. TWA = personally exponent has flow weighted average FIG. STEE: a personal le exponent has Aphirol from exponent land. VLV TWA = flowbold hast or land one weighted a resign

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3.6 Tool and form most Manufact.

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Table 9.7. House of Street State Saletal Sharmon and Transformers

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Emergency Services

104.6.6. Fisher Services

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Pare 911

Macroline View Flet Dhohes 45
2010 N Yellowani Mi (600) 1004-600

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Macroline View CA 95663

(600) 1004-6005

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Addisonal to the first of the first

Class Zammerson, Parged Manager Phone 1814: 424-2779 KEEG Personnel

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Diffee (409) NO2 4514 Mehla Graffia, Contraction Officer O(fixe (609) 502 0644 Cury Members, NOCCO Office Band B. South BOSTO Office Office (450) 453-9594 Office (400) 603-5006

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- Openyahorul Safety and Hadifu Admirectorani (CRHA): 1995. Occupational Sayety and Madifu Associated by and Pearlin Administration (CROSA). 12(2) Decorption of Soprey and Meanly
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A CCIDENT PREVENTION PLAN
FOR ADDENDUM NO. 270 SHE 14 SOUTH CORRECTIVE ACTION
PLAN AND A SSOCIATED WORK PLAN FOR UNDERGROUND
STORAGE TANK INTEGRITY TESTING AND ADDITIONAL SHE
ASSESSMENT.

FORMER NAVAL AIR STATION MOFFETT FIELD,

DER SATE SOM MET MIND

Prepared for

FRAC FNO West 1405 Frages Soud, Salts 100 San Gings, CA 51581

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Mattalla 145 King Are

February 2000

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APPRODAL PAGE

Pion Peoperation Resort, Project Field Leader

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CRA TME Central Industrial Dynamia Contracting Officer's Formulation

Experience Ministration Fate

Debty Health and Emergency Peopman U.S. Acres Corps of Engineers

10 BACAG BOTTO INFORMATION

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- Well Location Survey Conduct survey to determine the locations elevations of the newly metallist wells.
- Growndweter Sangkag Menuzang growndweter levels, purgang the wells, and collecture sounder.
- Denobalization Resum el of equipment and departure of personnel from the field set



Addendate No. 2 to Site 14 South Corrective Arthur Flore and Amounted Nova Flore

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Zyun Werrede	Project Quality Control) Manager Allerente Ette Health and Entety Offices	Office #34-434 2001 Mobile #34-591 2329	
Exhard Break	Alternate Site Health and Balleto Differen	Militar 131-284-384	

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7.6 SAPETY AND HEALTH EXPECTATIONS, INCENTION FROGRAM, AND COMPLEXICE

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	511 (MinSets phones)	
MASA Poles Strenu	(130) (04 1515 (140)	
	(630) 684 S417 (som ensagency	
Per	913	
Mourton Van For Station H		
229 H. Whessen 21d	\$1.90 y \$10 4.50 \$ (non-encapear)	
Minutes Var. CA 16043		
France Coopel Cooper	(892) 874 4746	
Heaven' Prem Course States	(896) 122 1222	
Haismal Response Corder, Tress Chomurals and Oil Spilla	(190) 424 1192	
Medical Custers		
XI Custor Nespiral		
2580 Dewn. H.d.	(KEQ) THG 2009	
Morrdam Varr. EA		
U.S. Sinalitzendo		
1335 N. Arques Avenue	(485) 773 5008	
Dorrevale, EA		
Regulatory Agencies		
U.F. Krivermennia Pretection Agency	(890) 390 2143	
Oxidema Receptory Response	(190) 140 9073	
	(890) 132-1539 (after kerns)	
Hattelle Ferment 1		
labort housey, Public Landor A. ST 50	Odlaw (614) 424 7169	
	Michale (#34) 774-3311	
Toront Name Mark, HEDSTE	DEDER 1804) 424-4382	
result transcriber to the contract of the cont	Michael (614) 345 3467	
Free Woulde, Allerante 50050	Office (134) 434 3103	
Fyte. venzus, z.emana smao	Michael (614) 579-2139	
Orio Sanagemen, Proget Marager	Phone (#14)424 3F75	
	Milhia (614) 403 5327	
EEEG Personnel		
Eichard Stradt, Albertado (1910)	DETRO (9125) 303 0190	
	Minute (935) 310 3342	
Many Punds of Contact		
Wilson Dieter, 32N	Office (1315) 532 4714	
Malta Orycle, Contracting Officer	Office (631) 532-8244	
Day Muselans, FOLCE Office	Office (120) (88 1134	
David K. Strath, ROHCC DYK+	Office (100) 183 F136	



Figure 7, May and Dewing Directments El Camino Hoy Ral

THE PERSONAL PROTECTIVE COULPMENT

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Table S. Task Specific Personal Protectors December

Tesh	Activities	Required PFE
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UST and Posters heaging Testing	UST and pure income reck to performed to make proup to presourne the preduct late and executived using a training apparatus	Level D (salely boots, rateds gleves, local bale, rately glasses, budger gleves, etc.)
Sean Lervie and Made Uniteres	Fits survey to be sked and mark that breathest of colored and mark that	La col.D (salety boots, astria gierre, buri bats, unbtw giarre, busine gierre, bearing protestam, etc.)
Groundwater Montering Well Installation	Drilling will be performed using a bottom man ways drilling to obtain a brestalan for the purpose of socialing male.	Leve LD (salety boots, nairde gleves, but it bats, subtive glasses, beatter gleves, bearing provintum, six.)
WAX Development	Peop vo Daher establishes	La se LD (salety hosts, ndrde gleven, jose (hats, rabety glasses, leadux gleven, etc.)
Equipment Decertainunation	Any receival end purishe on the sampling equipment will be requel from the sampling equipment using a day class.	La zol D (taler, honez, estrás gleves, bur t hatz, udety glasses, busher gleves, etc.)
IDW Handley	Sumpling a quadrant and described made and a support of a support	Level D (salety hosts, ndrde glerne, burd halo, salety glasse, busine glerne, etc.)

Devent Contact of the Contact of the

Activities

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22 O PLANS REQUIRED BY THE SAPETY MANUAL

Services, information on Delinik's progress and proteiners entired in the select passeal are contented in

- Energency Kespenn Plan. Francisch in the HAST and taled as Energency Action Plan. (Section I 6), the encopolicy action ylan contains procedure for.
 - a for Everage
 - Print And Report and realized the tree medical emergencies
 - Henrid Germannelsen Film: Heinille's wester Henrid Communication Programmental
 Description Information Programment Systems (Information Programment Systems)
 - . No Health and Salety Flor
 - . Block to the Pathonese Program
 - · Reporting and Recording Occupational In processed Observes
 - Accelent/Sundard Expering and Investigator Prevalent
 - Fernand Protection Equipment Program
 Enfoty and Hould Management Program

12 0 CONTRACTOR INFORMATION

Pater De wild fellere the machinisty and mechanised representation remains extend in Section Del of USADE Produce SW 1951-1 trade Mechanisty and Mechanised Equipment. Additional internation describing here representated resident in this APP mid-be mad in provided an expansion place on other the HASS or Appendix D and include the felleres.

- Medical and First Assurencements retired in the HATF
 - Personal Projector: Enumerori requirements outland in the HASP
 - First Frotection, and Froverteen requirements $-\Delta t$ ache δ as appendix D postariot to the UST marginy monag

150 SITE SPECIFIC HAZARDS AND CONTROLS

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APPENDIX A
FFAN ACANOW LEDGENERY AND DAILY SUFFECTION FORMS

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APPENDIX F
DOCUPATIONAL SAFETY AND MEALTH ADMINISTRATION 2004 FOR MY

Summary Guide for Completing USACE Contractor Monthly Summary Record of Insuring Unions & Work Hour Exposure

In accordance with the previous of EM 38f 1.1 Section 6. Program Management Frangesh 0.0.0 A condent Reporting and Recording sub-paragraphs 0.0.0 fs you the Privace Control And Management and shall report an expension of the process of the proces

scardinated to the work that sacridine superior and accident experiences of the Fronte Confinction of only the sight-confinction (II. All a command these promits follail include as posses work hears and a record of occupational argums, and diseases that sacridine date elements instant below). Definitional criteria is seen for the development or found to II. CON PAULION. Most of this information can be obtained roces the Contractor's OSI 000 Loco.

If the Continues organized films are safety work how are opposed; change, after the mount is admirated to IMAAC Content total films rule, a reveal appear to the GDA. In subdivision the contents read conspice to USAAC IMAC Record SMF Report of A content, the contents are the intensity to the contents are for submirated to contents or the content on the content of t

How do I determine the Standard Industrial Classification (SIG) or North Amer. Industry Classification System (NANCS) code for the private soft, and supply code actor (*)

You determine the SIC code by using the Standard Industrial Clevel horizon Mismail and the the NAIC code by using the North American Industry Clevel Joseph System A case! Note and we specificate of the Northerth Officer of the Promisent College of Missepannon and Studye. You may control year neversion COMA office or Shife agency for help in determinant waters (Lev MAIC county).

Recordable Insurant Theory which must be included in the Record

Confractor rough leng records of finishing regurns and illnesses that see Work related

Heat 3 or more of the recording requirements lated below therefore

Days ewey trum Work after the date of rapury Restricted work or truster to another jub Medical Trentment beyond first ad Needlestick repries and cuts from sharps that are contaminated with sender power's blood or other potentially infections partners.

Standard

Occup-tread hearing loss if the employee has expensed a work related
STS in braning in one or both ears and the employee statal hearing level is 25 dill or

How do I decide whether a particular insury or diseas is recordable?

The decision two for recording work related by ones and illnesses below shows the steps sendined in making the determination.



When it an expretillator considered work-related?

An approphilises or considered work related at an event or caposare in the work on recombest counsed or exact likely to the conditions or approfice dark suggress to do preceding conditions. When the beddeen so provided for contains not all these control from events or appeares occurring in the workplace values an entergone operated oppines. See 25 CFP Part 1559 542-518 for companies.

Land Based Activities

The work environment for USA CH contractors is defined as the physical location of the amount stricts

Marine Activities

For macuse activity accident reporting only, the contractor a responsibility for reporting work or listed accidents extends to the following personal and organized.

- Prisso Controler and submathretus presonant and equipment. PM III performing work in direct apport of the oceanistic country. This includes: a. Controler M. II that have reported on Midden in a control distinct work your
 - to begin water states project hazard pay or supported states.

 b. Confinctor PGEI at all also loaved or used during contined work for stamper staging synchronger transitions or deposit of multivalue.

 Confinctor PGEI during modification or demolphishten under terms of the
- Contractor Ps. If during incommittee or development on under terms of the centract.
 Service and supply vendors when they come under the durint operational control of a
 - nue er sukvestrecker i sozel moster oc project supernitendest such is.

 a. When making fixed approach to make up to Controller senashiplant.
 - While their visuosis are made up to Confractor visuolis structures or equipment.

d. When carting off and corrupting every into Contractor vessels/plant. What is medical treatment?

Modest becames includes managing and coming for a patient for the purpose of combining discusse or discoder. The following are not considered modern breatments as see NOT recentable.

Visits to a doctor or health over professional solely for observation or convening. Disposes procedures including administrancy prescriptors medicators that are used as let for descriptor or process and

What is First Aud?

First and mount only those treatments specifically listed in 1904.7 They are

Using one precorption medication in one precorption strength that medications ministally in total precorption and one precorption after it, in recommendation by a physician or other intered the ordition professional in our a consequence strength is created in the case of the precorption medication at precorption strength is created medical bestweet for recording purposes;

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or samp heterify bandage at Ston Stage." Other wroad closing division such as stated stopies on, are considered sectual testiness. Made at the state of the stage of the stage of the stage of the stage of support such as elected bandages wrope.

Using any non-rigid means of support such as elastic bandeges were non-rigid back belts att. I divines with rigid stays or other systems designed to sumed size parts of the body are considered medical treatment for recordings.

purposed: Using temposity immebilitations devices while bissipertial an accident within (e.g. sphots simp, neck collars back boards etc.)

Defining of a framework or board to mhere pressure or drawing that free-

Using eye p-tribes
Removing foreign bookes from the eye using only irregulars or a collarwide

Wide

Removing spin stem or forcego unitered from news other than the eye by
impation because outloo swales or other sumple mean.

Using These goods:

Using medicates these or the sumple mean or the treatment on considered.

Using managers payana being or compacts towarest on consist model traducts for recordinging purposes? or Uniting fluids for relief of heal stress.

How do you decide if the case as obtoil restricted work?

Restricted work actings occurs when as the result of a words related organyl faces are engagined or heal to evan professional longs or occommends keeping an engaging or from design the roots of faces to see her sub-or from working the full weeks you to the employee would have been scheduled to week before the names or allower occurred.

if on do you count the number of days of restricted work activity on the surebyr of days away from work?

Count the wanker of <u>CALENDAR</u> days the employee was no restricted worth setting at various many finance of an areal at the annual-bit ingential lates. Do not count the day of which the reportation occurred at the normal-bit ingential lates. Do not count to day about the properties and the properties are not to the properties are not required to the properties are

What if the setrome changes after the record arathmetted to the GDA?

If the outcome or extent of repurphilmse changes after the record has been submitted to the GDA, the record-should be revised and resubmitted to the GD on an below the date for subsequent morthly record is to be valentied.

What is an Incom?

An injury is very wound or damage to the body resulting from an event in the work on strongers!

Examples: Cults puncture increvious, absence fractions brosse.

contained obligated tooks suspentation insert trip electrocuties or a thermal chemical electrical or indistant term. Sprint and while tigeness to muscless posts and extracted values are chained as injuries when they result from a size, true full or other senter sometimes.

What is an illness?

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Skin descensor describes
Skin descens or charteful in literature the worker's skin thet are caused
by work exposure to chemical, plants as other substances.
In order, Contract describes excess, we want caused by review register.

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Nonprellary COMMercia in Rilamous assecution with heredizing behandours brindings and special colorance of seat press or press of transport and seat press of the press of t

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Hearing I

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All other stresses and an All other acceptational diseases.

Examples. However the security is the territories to be those and other filters of our consensal basis from gap from the and other effects of successful basis. However filters of successful basis through the security of th

How do you determine the total hours worked by all employees?

T and Easted Arthropies

In taking hours press and sub-extinctive employees worked not the proport with the hy window board part them an demonstrat weeken a send as hearn worked by other workers subject to the day to day appear more by press and subconstructive employees in earning to appear to the press and subconstructive employees the appear to the proper to the press and subconstructive employees and employees a measured with maternial sensors at or exposed provided by supplient examples construct supply discrete such adaptive failure employees the proper and analysis of the proper constructive and and adaptive failure employees the proper analysis of the proper contractive factors while to each adversing or remand partnership of them apply discrete.

Marray Arbardon

For manne activity reporting only the contractor a responsibility for reporting only re-level hours of exposure extends to the tollowing personnel and equipment.

1. Prove On structor and subcontractor personnel and equipment (Pik E) performing work in done to provide of the contractor between the Contractor.

eck in direct opport of the contracted scherig. This includes

a. Confractor Fig. 1 shall have repaired so status as a contract defined work was
to begin work under prayed; financing up or substances which work in

b. Confractor Fig. 1 st. 41 in the least of a used during contract work for starings
absociate resolutionaries treatment or descorat for schemists.

sequest introduce the same or deposit of mestical content to PREB during mobilization or demobilization under terms of the content.

2. Service and supply vendors when they come under the furect operational control of a prime or subconfluctor vessel maybre or present superrate short, such as, b. While their expense are made up to Contractor would structures or c. During delivery of materials or on-board a vessel d. When casting off and nov goting away into Contractor vessely plant. Do not reclude vursions suck lower holidays or any other non-work time even if engineers were used for it. It the rentrictor loses records of only hours used or in the contractor has employeed with are not paid by the normalization of the remaind on the remaind If the number on two lable was on use the optional worksheet to extend at. Optional Workshoot Find the number of all name and sub-contractor full time Minimum by the number of work being for a full time. This is the number of full time hours worked.

Add the number of any eventure beam or well as the hours worked by other employers (park time temperary senses) supply continuous etc.)

Broand the newer to the next highest whole resident with the recorded number as the Monthly Exposure Hours.

OSHA's Form 2004 Summary of Work-Related injuries and Illnesses

Take Extragret reformat on

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(i) now Di Mila Praestro

All All Debur Streeter

OSHA's Form 300A Summary of Work-Related Injuries and Illnesses



Page desire considerable to the page of th	e ad whalester you of the anticedista can been, and they make	and the section of th	me de la	Behilde hand of vendors Consolidation State Chelle statebury
Sunday of Comm. Total marker of disable Commander of disable Commander of Comm.	Toxineste d	Treal-receive of concernment and pictures of concernment pictures of concernment and pictures of concernment pictures of conce	Tradinandos of other accordinates of the control of	Final Michiganese 19
Treatments of days of pit treatments or represent		Treal number of days acceptoments 26 6		Associates que action d'enaliques ————————————————————————————————————
Y real number of 1900 Co. Standard Co. Stand	13 1	50 Foreigns 30 All olse fleasur	<u></u>	Significant formall fields to be the control of the and fields to be the control of the control of the and fields to be the control of the
				Colpay or talk: Yfi

Note that the executy gaps from Extensing is to April 30 of the goar following the goar consensing the form Ext. Install, better to 61 obtained information allowing a sample introduce announcement, include these value functions, want and pales for the solid set of the consensation and consensation for the consensation and the college of the same size.



A PPENDIX C



Battelle Science & Technology International Safety, Health And Emergency Response

Title	Bloodsores Pelagene Program	
Nuciber	SSH-GP 07	
Renson	0.0	
rigunius	Low Dingish	Bord 29, 2007
pprovná By:	Advisor, Salary Harita and Emergency Roses Somether Confe. Occupt W. Confe.	1/29/04 Out
ppresent By:	Manager, Sericey, Heelih And Energency Response and agents, for the BSTI Safety Councils of Charpeners Manager, R Mark E. Rekkon	5(3/04
	Manager, Regulatory Compliance	

Kindam Palaper Papar Salay Social Statement Report 4.0 DEFUNITIONS 8.1.0 Manager Salety Health and Emergency Response. 8.1.1 Salety and Health Representatives. BO MEDICAL MANAGEMENT POST EXPORURIS REVIEW ... 10.1.3 Change, in technologies, that changes or reduce bloodhorse pathogens, 10.1.3 Medical Recepts

Yes diese habe per he pas

Fragmen establishes responsibilities describes procedures for preventing exposures to bis of home authorises and describes actions to be taken in the event of a bloodhome.

102 This progress does not fully address the requirements for begatter B virus (HBV) and

2.0.1. This progress applies to Battella Science and Technology International (BSTO staff that are expected or may potentially be exposed to bloodborne pulsagers (BBP) during the

\$4.5 In order to perform specify such BBP areal except word by his real or described to perform

A surrough Medical Escalary A moderal facility and its staff that have been necessared and

approved for two by the BCO Health Services organization. Blood - Human blood, france blood components and products made from human blood.

Blandbergs Fribance. Fethoremy surrogeneous flature request to human blood and noncause disease in humans. These patherens include hist are not limited to henciate

potentially infectious materials on an olyes or surface.

Contracts that I construe I worker that has been realed with blood or other materially infectors, materials or that may contain sharps. Continues and Shares. Any continues ted about that can penalty to the skin recladure but

not limited to predies scalads broken plass broken capillars takes and exposed Decontemention - The use of physical or chrossed masses to remove proctivate or destroy

fur bandhes use or demoust

sates medical degrees each as sharms with engineered sharms many restertions

Exposure facultist. A specific eye mostly other much unsubmen non-intact days.

resalts from the performance of a staff member's dates. Head-Neshbap Fandetes: A Socials providing an advocate supply of running potable water

Licensed Herithcore Professional American whose legally begantled score of proctor

HAY Republic B Vision HIS Hamas Immunodefromov Virus.

Occasional Expense - Rosembly retignated thin eye micros merchane or puretoni-

Other outenatily unlechast materials The following human hody fluids semen yearnal servetance combinerated fluid salaws as dental procedures, and any body fluid that is weakly contaminated with

1) Any unfored teams or person (other than inject alond from a human flaving pr

2) HIV or HIV creaturing only or house cultures ergon cultures, and HIV or HRV containing culture made in or other solutions, and blood coming or other

stoks homen belos cuts and abrawane.

for protection posterul a forgett. General work clothes (n.c. sax force runts elects

Result ted Weste - Comed or some hazed bleed or other potentially referbous restorals. should blood or other potentially infectious materials and are capable of releasant mermite closed, wester continues blood or other potentially infertous regionals.

Sharpe Buth & neithernet Sharpe Bushy Protections (SES)P9 - Allian modification of a needle device used for withdrawing body fluids accession a very or artery or sorchanaus that effectively reduces the raik of an expensive sucadent.

infectious materials may be a source of eccupational exposure to the staff member. Examples include but are not limited to hospital and climic patients cheate in managers include the section and the managers and only present of the proremains and individuals who donate or sell blood or blood comp

Stocking. The use of a phone of an charged procedure to destroy of provided life such these highly resistant becternal endospeces.

as if known to be inteckous for HIV, HIIV and other bloodberne authorises.

Mark Proctor Coatrols Costrols that reduce the klockhood of exposure by alternative reaction to which a task is needermed (a.g. prohibition recipions by it temp as

TEC Department of Labor Commissional Calebrard Models & decreasing and (ASSE).

S A RECTE ATORS OVER ENTARE STANDARD REFERENCES.

Bloodhome Pulhogen Standard 20 CFR 1910 1030 NYOTH (1988) Publication No. 66 519 for Division of the Experience and Health of

NICKH (1989) Publication No. 69-169 A Correctors Goals for Public Safety and

Immunodeficiency Virus and Negaths E Virust ILS Department of Houlth and U.S. Disnartanent of Health and Human Services, Center for Disease Control CDC

State of Obso Kristoppersolal Protection Agency (Obso EPA). Infectious Wests.

5.1.9 Manager, Safety, Health, and Emergency Response 6.L.O.I. Provide oversight of program effectiveness and appliculating to BST1

Circle to Pale per Papea Saley 3 x 122 Feb Evapory Representate Accounts 6.1.1 Safety and Health Representatives

6.1.1.1 Describe executioning to I may Management in the next amounts of exposure determinations project and appoint to specific treating and where we can 5.1.3.2 Amenally seres, the effects ones of exposure controls such as work practices

\$1.1.2 A wait has management with the moust service of project, and operation

6.1.2.1 ine Magagement 6.1..2.4 Ensure that project specific exposure control plans are developed

necessary for project specific countries and projects.

6.1.2.6 Engage that expensive determinations are made for all staff and that a list of radivaduals who notentially may be expraed to bloocherae pathones as

\$1.27 Eague that staff undextand how and to whom to most exposure events 6.1.2.8 Easyne that exposure events are investigated indicate STH, GP 62 A codest and Incident (provingion Program).

S.L.1 King Avenue and West Jefferson Health Services 4.1.3.1 A was in review recommendation and approval of medical facilities for use

o 1.3.2 Energy that shape press look and moderal files for Euro Avenue and West. Lefforms Offices are markuped. 6.1 4 Chaff Management

National States Avenue and State Leffmont stoff should report on medicinity to Hardith Services.

n.1.4.2 Provide seent, open solar totals from Sately and Health Reconventatives. regioning wook process and a cattpe with a linguiseering a narpe injury and (\$200P) representational fee inverse energy.

6.1.5 Transien Batabam Coordinators

is 1.5.2 Terraing records shall be kent for 3 years from the date that transver accorded. eit 5 3 Uppe regrest, trusper records shall be provided for coming purposes to staff

Ca race a

 Line transgement or designee shall develop exposure control plans to address proced and apprehen-specific barrads. Refer to A speechs A "Sample.

Exposure Control Pins.*

6.2 Exposure Control plans and the BST1 Blackborne Professor Program shall previously acquainty to reflect new or modified basis and preceduous feet after encogational autosom.

7.1.6.3 The sense inverse shall see had the subcatetoo of signiferes non-managemental formation who are principally as posted to regime from continuousled sharpes in the decemberon evaluation and selection of effective engineering and week practice controls.
2.3.1 Erroseum Outermanation.

7.1.3.4 Line Management or designee for each department that has staff members with occupated of operation or paticular appears to the southern pathogene shall prepare a written appearer describement. The appearer describements shall be reviewed in fruit remarkly by the anapiest Sately and Health Representative or described and shall deaths the following.

7.1.1.4.1 Luta of all jab clead/solous (projects) to which all stell resident to those job clearfunktion have comprehend exposure. It is explore players as seaso, residual technicans und other specification in facility of the particular technical under the product of the product theory apprehens bedeen beinging with analysis and comprehensive theory.

ya-minoup resociosa santriasa.
7.1.1.4.2.6. Int of yab classifundoos (proyecte) in which some staff consideration or present because of certain datase. Examples, first responders (rist add/DR promisers emergency care principes, because of certain datase.

7.1.2.1 Pro-placement and yearly phrancal examinations are progrand for statt (flowe

tated in Section 3.1.2 and 7.2.3, above whose work expose them to HIV HIP vs and other blood bearing infergem. These accessmentars will provide the staff transfer with a physical accessment performed by a builds medical facility or beneate belifficione perfessional, approved by the 3CO Medical Director and with an opportunity for commoding on whether health concerns. 3.1.3 Sharing turners (som

3 Sharps Injury Logs 7.1.3.1 Loss numeroment shall worth that a sharps rougy log loss been established and

to meanware us, the recording or procurations against frost confidentaled sharps for affected projects | Reference SIH GP-078 Tierdacus Pathryon Person

such a regreenie to rended the contridents to of the recent obiff murature 7.1.4 Precautions for Staff Members and Preventative Measures.

7.1.4.1.4.11 blood and other notices, the reference materials chall be considered

7.1.4.2 Engreening and work practice controls shall be used to elements or manager

7.1.4.3 Contravented peoples and other confugranted sharps shall not be best

7.1.4.5 Certified biological sofety calamets (Class). If, or III) or other engroussia.

71.4 to All spells shall be reconstantly contained posted and closered up by

71 471 Appropri-to faculties for wishing shall be made reachly southly to A fler recovering offeres, staff well the receible weak hands and any

all staff working with blood or other potentially infectacia muterials.

other potentially confirmed of skin immediately, or as soon as teamine with spee and water

71 4.8 Personal Protective Kenn

7.5.4.9.2 Haulds Services and probable BSTI fank becault be as abased by

potential for approximate entre to determine operagement sugmenting and seeds produce controlled and PVP enginements. A proposition productive clocking such as that not finantial to govern appears allowed when positive or must are presented to fill the vector in compartment experient extensions. The type and characteristics well depend upon

7 L.6.8 2 Any FFE garment penetralred by blood shall be removed immediately or so soon a families and placed in an appropriately labeled see-worken 7.5 a 1.11 designated continuer for strange.

washing decontaminates, or disposal.

7.1.4.8.4 Gloves must be were wherever it can resoccably be expe

staff members will have hard contact with blood or other potentially infections materials involve alone or more membranes.

7.1.646 5 Disposable give or shall not be weaked or decreasemented for re-use.

During use the gloves mean be replaced as seen as practical after they become configurated as soon at feasible after they are ten or punctured or whose or their ability to function as a barrier has been concerned.

71:40 Hunding Continue-ted Leadey

7.1.49.1 Contexcented launchy shall be handled as little as possible with a contextum of aphthesis.
2.1.48.2 Contextuated launchy shall be hanned at contamented at the incustom

7.1.4.9.2 Continues ted in ends shill be plood and transported in begance constitution liberal or make configuration and transported in begance.

cretures interes or ener codes in accordance with section 73.30 of the program.

7.1.49 4 When is facility without Universal Procusions in the heading of all souled launder alternative Libeting or color coding is sufficient if it.

permit in enjoyees to occupate the certaines as requiring complaines with Derremal Precusatess.
7.1.4.10 Handling Regulates Wests

7.1 4.10.1 Purchase recenture sharps continuent shall be used for continuousted sharps capable of proceedings the size including that not limited to needes, unabject in pretent including allows and capable, publics. Storper cantinuous shall be easily accessable and so close to feasible to work.

7.1.4.10.2 Statecard large or containers with biobasard labels shall be used for disposal of regulated waste.

7 5 4 10 3 A R regulated weath will be disposed of according to state and federal infectious weaks mentioned Reference RP PC 641. Contact

your Sidely and Health Representative for disposal information and

Electrica Palaper Propus Salas Vicili I of Paramore Propus

71.411 Labels shall such the tellar are loaned.

7.1.4.11.2 These labels shall be fluoreacest oncors or orange red so

credaminantly so, with lettering and pembals us a contract or color. W. A. C. W. Whele shall be offered or close as females to the contener by strong. Mark adhesive or other method that provests their loss or 7.1.4.11.4 Bud how or red containing may be substituted for labels.

9 parts water to 1 part bleach) after a procedure has been completed and comediately or as soon as fearable ofter gothers blood private

Note: Ellearh palettees propored to house most have horse made withou 24 house of occie. arder to be completed effective.

7.2.412.2 Worker glosver-en shall not be necked up by hand. For example, use

71.4.131 All staff members cleateful to leave to the potential for exposure to

Kindiene Falleper Fegua. Salay 3 sala 3 di Kuapany Repro-ne Fa

determine whether they have sufficient personals without the

7.1.4.13.3 Stuff menabors are required to sum a Hersatius B Vaccination A uthern-dann't refundess Intent Form and submet the form to your Bladdome Putagens tricing instructor the ESH&Q Systems
Musagement and Tricing continuous of consileting a self study or directly to BCO Health Survices. Staff members who mobility

8.1.0.1. Immediately report to Health Services or an economical medical facility for exposure occurs while performing work in the field or off site. the following

B L B T A copy of CIRL LBLB LBDB with emphasizes managery b IR.

B 1 6 3 A description of the staff member a duber at the time of the inquired. S 1-6.4 How the exposure occurred and the roots of entry (1 s. skxx or reaccost

permanaged from the exposed staff number to draw blood for beging purposes

\$1.00 in the event of heavitts B exposure to an individual not prevently expectated administered within 24 hours and at most within 7 days of the response

\$1.07 At the discrepant of Houlth Services or the separated medical funday most when modes-fly indicated.

S. I. & S. Hould's convices will by to identify the source individual (individual whose A medical evaluation will be considered (Reference 22 CFR 150 h 1000 nor Europea d

- Language Commission

The state of the s

8.1.0.10 Results of the source undividual s testing shall be made or all able to the exposed staff member and the staff member shall be uniconed of applicable laws and regulations concerning disclosure of the identity and under locus are of the source individual.

1.64% and apparations concerning miscourse of the intentry and intertocas as of the outers individual.

Bi.011 Tile line manager, or designee shall complete an accident/socident involupabilit.

1170-logs 2013. E.3.1 Post-Experite Follow-op

81.1.1 Within 16 days of evaluation, the modual staff or other approved isomeod hashbarre professional will provide the exposed staff member with a written emission of the staff member's status.

opinion of the staff member's status.

8.1.1.2 Committing through the HSTI Employee Assistance Program will be under production to say understood which has had no emprouse.

8.1.1.3 The staff member a suprevisor shall complete as Accident/incident Assoyaus form (Raforance SIN GP 02) and torward it to the sauged Sofuly and Health Reconnectation.

Representative.

81.1.4 A complete review shall be made of the commutations leading up to the
expression shall take sides uncluded but not best do for following

81.5 6 What the staff receiver w.o. during when the exposure occurred.
81.1 6 A receive of the personal protective equipment were during the incident and processors of implementation of incident.

Privace of represents of incomes.

81.1.7.A receive of tracing received by the exposed sich member and revision of bearing if industrial by this review.

braining if indicated by this review
8.1.1.8 A review of existing procedures and controls.

S119 Figure 1 presents a flow chart of the steps as post exposure evaluation and follow up.



Written 16 days, on powed staff membergeron written on tableaders of membergeron written on tableaders of Management a open consol staff.

9.0 TRAINING

sensely thouseher expresse was or unused proc to their testal weights

annual racture

- 9.2.9.1 DSHA standard for bleedborne publiques.
- 9.2.0.2 General optionalogy and symptom-talogy of bloodborne date-on-0.2.0.3 Modes of transpassors of bloodborne publishes.
- 9 2.0 3 PLOSE of Transcission of bloodforms pulsage 9 2.0 4 HST1 s Hloodforms Pulsages Programs.
 - 6.5 Project specific trucing shall include. 9.2.0.5.1 Tasks or activities that might couse exposure to Mood or other

9.2.0.3.1. Trains or -extrates that magic course operate to Brood or other potentiality infectious materials.
9.2.0.5.2. Safe Work Fiscs Work Instructions or procedures that exclude control methods such as the following-use of personal perhapsity control of the period of

beckmones and involved resonance.

\$ 2.0 % 6 ATI truction shall be documented invitation provide specific browns.

10.1 O Program Records

Microbiom Path per Propaga Salam Sudd And Propaga Services

10 1-0 1 This program plot shall be reviewed at least senselly and whenever

Program Review documents are shall include 10.1 1 Changes in technologies that eliminate or reduce bloodburne pathogens. 10.1.1.1. Consideration and replementation of suprepriate commercially available and

43,000006 10.1.1.2 Selections of cent freezons measureral staff members who are potentially exceed to recover from continuously where it the identification evaluation.

10.1 2 Transien records

10.1-2.1 A.f.s renormen transport records shall rectade the fallowing

10.1.2.3 Controls or summary of segment.

10.1 2.4 Names soft-tiples, and prestyll the data numbers of all attendeds. 10.1.2.5 Names and qualifications of persons conducting transact

10.1.2.1 Medical files shall be regressed by RCO Haylth Services or an approved

10.1.2.3 A Coerc of staff moreoler's hepstite viccin-box states. 10.1.3.4 Medical records relating to the statt member's oblidy to receive the Tierdacou Pathryon Person

10.1.3.5 A copy of all results of errormatures medical testing and follow upreportures.

10.1.3.7 Copy of any information provided to other healthcare perfense eals.

. The type and brand of device involved in the incident

· An explanation of how the incident occurred.

10.3.4 Confidentiable/Structly Private

10.1.4.1 Confidentiality. Minorly previous status of medical records as to be maretured. any populated proceeds amount those programed by last a co-submorraned to court

10.1 E Maintenance of Records 10.1.5.1 ECO Health Services or an approved medical faculty shall maintain medical

10.1.5 If The Sharps Input Log shall be returned for a period of 5 years following the 11 O E clated Documents

STH CF 62 A replect and foundatd Economy and Investmenton.

- STH GP 20 Reporting and Recording Occupational Expense and Illnesses
 - RCO Operation Guide section 1349.41. Bloodborne Publishers (1297).

Anneadry A. Special Exposure Control Plan

1.0 Seaps

2.0 5 vole ability

Terdica Interpretagna Saley Sould And Engineery Reprin-

This exposure cooked plan applies to operations that may expose employees within the lenter day-street or report types to Rice Berry Pathones.

(Discuss regulatory requirements and hearing of Bloodborne Pathogens potentially encountered to

4.0 Exposure Determinations Personnel in the following only close furthers perform work that has the netental for exposure to

Tank/Procedure that has MAP exposure neterical

Job Classification

5.0 Methody of Cerrolance

1730, person is used to describe sook markous accommod and ESS used to control bloodhorne 5.1 Universi Percenture human blood and other petentially infocuses reviewals are treated as if known to be

5.2 Regimening Controls 5.2.1 Needles

Of or each section before, enter one descriptions upon to task and smoothwest 5 2.2 Reasible Sharps

(Describe departmental or operation specific precedures for thems listed below as applicable

5.3.2 Handing Specimens 5.3.3 Harding Shens 5.3.4 Handling Conferenced Recovered 5.3.5 Loundry Procedures the contact was recognized to have present the possion of the procedure of the contact of the co

Navidacine Falls proc Paryana. Saloy 3 xx22 And Engagency Respons-tes Pa. 807

(Describe procedures to be taken in the event of an exposure modest. These procedures should be

80 Evaluates of Tha-Plan (Bucus how and who will emigate this plus as an annual been)

(Discuss what records are maintained where and by whore. This discusses should be specific to

Durectures. Read and crossing the following: Place a purk in the box next to the statement that

more instances, where it in Houlth Services (self starte covers ray not be used as restal transmit or submit the form damedy to BCCI Health Services. You will not recover credit for

materials. I may be at mak of acquiring begution it were (2019) infection. There been However I facing logistics it vaccount on at this time. I understand that by declaring this vaccine. I continue to be alread of accounts becattin E a sensor fluence. If in the future I contenu to have occupatorial argonou to klood or other potentially sofuction materials and I want to be recognited with hepothic E vaccing I can preserv the recognition areas at

I want to recover the benefits III recoverages.

Parted Name_		

Partel None

Battelle Business of Innovati

Battelle Science & Technology International Safety and Industrial Hygiene General Procedure

Respiratory Projection Propedure SIRK-CIF-01D II Environment, Safety,

SCOPE ARD APPLICA SILTY PERSONNER OUTDITIONS RESOLUTION TITLE Lors Minacons and Byrana and

Marriage and Department and Constribution of the Co December 100 REC 04-05 ARTERIOR A STREET, TOR CASTRONAL SPRINGE LIST OF TRANSPATION

Spierr Trius Meierr

REVENUENTEERS

Serting SIH PP (III) Fevery that to the retires

.

The purpose of this procedure is to provide quickner for insensement of work areas, to establish personnel responsibilities to insure proper relocition usage and maintenance of respiratory production equipment and to establish in mechanism for the documentation of these notivities in mechanism with applicable regulatory inquiriments and accepted work practices.

This procedure-pipes to Bettelle Science and Technology (interestional (BSTI) including reposal ethors and hold operations.

20 PROPERTORISTICS

31 Transpo

- 2.2.1 For the lade and effective was of respectory protection equipment it is exected that the same he properly instructed in an express estection use and recontinues mount to provide the year shelf for individual. Proor to being assigned it obspective every respector over react receive appropriate tracers in the following.
- 3.3.2 Requirements of the requirem procedure unclading responsibilities of securited performal.
- 3.1.3 Notice of the based of
- 33.4 Trensum metrol metro
- 3.1.5 Suitability capabilities, and limitabless of the puracular requisitor to be used.
 3.1.6 Recognition and harding environments as appropriate.
- 3.1.7 How to dee and dolf re-previous protection equipment properly uncluding positive and negative pressure user soal checks.
- 3.1.8 Requirements for respective, storage imarkenines and cleaning of the respursor.
 3.1.9 Responsor certadge replacement frequency.
- 3 1 10 The sacr must decrement to comprising by passing the given trut with a score of 80% of greater.
 3 1 13 Redwoher transported by cover appeals: Retriction of the process with the cover appeals.
- periodic impector revolts indequincies in the staff member a knowledge or use of this procedure.
- 3.1.12.A witness at an in use, respectively protection opposed will be revoked by the Safaty and Health Representative or delegace if selective thomag is not subsflicturely completed.
- 32 Medical Evaluation 3.2.1 Medical approval is required for those who need to wear respiratory protection

3.2.2. A Medical Persolator well determine as individual a physical Essen for responsible. The intervals for communities time exhibited in \$511 levels. The responsible of the Engineery of examination Health Services or appropriate annual size of the Engineery of examination Health Services or appropriate annual size of the advantage to the first own to resonal resulting Engineering space the medical resolution of the relativistic Persolation Services and determine the activation of models their precisions, to approve our described the approximation that exists of models their precisions, to approve our described the approximation of the processing to approve our described and approximation of the approximation of the processing through the processing the processing through the processing through the pr

responder usage.

3.2.3 The Medical Stellaster will do one of the following

3.2.1.1 Approve the individual for upresticted use.

3.21.2 Approve the individual for restricted use and describe the restrictions is 3.21.3 Deay use of a rescribing to the individual.

Fit Testing

1.2.1 The following prepareties must be met prior to a staff carecher being

magentary participan. (1) hardrest approval and (2) triuming completed.

3.3 2 Fet testing is perferred by we without of justice and in eccentarion with the

appointed by the BSTI Salety Health and Emergency Response Menager 3.2.3 Each different type of majoratory promotion exceptant that uses a focuparer to face and shall be fit tooled. This includes self contained how thing appointed ISCRA) makes are law preparator caseless fallening faceperer dust suital and

powered at nanpowered for purplying responders (A.P.Hal. Postave pressure Longopeon will be tested in the naperive pressure mode.

3.3.4 For A.P.Ha is sufficient number of styles and annow will be made available. The staff member will be allowed to examine each of the responders we allobe and choose

member will be allowed to excessed each of the responders we stable and choose one for higher fat test.

3.3.5 For bottog well be performed at local angularly for staff who pressure networks the Responders Protections. For bottogs also well be received as precessor for

ADDITIVITIONS

The following definitions upply only to this procedure

Exposure Louis — Permissible exposure limit (PEL) as defined by the Occupational Safety and Health Administration (OSHA) as an employee a exposure to any substance

ned Heelth Advansariation (OSHA) as an employed a supersum to any obstant hard in 1748 a. 21, 22 and 23 and any 10 and both both for both are work. Week which shall not exceed the Busin time weighted using a best great for this shakes on the halles Busines have the both only to express in terms of ceiling concentrations. The American Conference of Governmental Industrial Hyperus we will take recommended express until that Private has a "d'Appriché to "d'Appriché and the Conference of the Confe

Interest the contract of the c

with at individual is ability to entripe from a dasperson immosphere. (Alto see 29 Code of Federal Regulations (CFR) 1910 1341 gt 3s)

Outputs Deficied Absorphere—Outputs distribusioners moons as utmosphere with proper protect before 18,64, by volume.

Protection Factor (FF)—The number songered to undoubt the cepablishy at a responsive to alford, cortain degree of protection are serve of intend tille-contribige socialization, (Various associate user searce (FE).

Q multistive Fit T cat - Q E.FT) — A transcence of the infequency of respirator fall by determining whether or not as individual using the respirator can direct the table or instation of a continuence introduced into the vicinity of the user's

Q manifesture Fit Test - (QNFT) — An accument of the solveyacy of responder fit by memorability assessment concentrations of a challenge open inside and outside for fiver precess. The ratio of the law measurements in a mobile of lawlage of the soil believe the suggester five piece and the sacra's from.

Responder—Responder Ordersche Responder—And deriver proteins by NIOSR and the

Mine Salety and Health A diministration table to designed by profess the user free tobalishes of harmful continuents. Dispusable fillinging propries and sexpressurated state tabbles were, not those that an incarlately presented when won over on our supplying properties to separately and process when used for portion, reservance continuents. Excluded an SCUEA and support mades. Notes, Support pulgate cannot be used in a solution when my support mades. Notes, Support pulgate cannot be used in a solution when my support mades.

4.2 The following define tons can be fruid in the BSTI Glassury.

A disconstruire Controls
 Qualified Individual
 A reformed Technique
 Qualified User

S DREGULATORY/VOLUNTARY STANDARD REFERENCE

S.2 Nuclear Regulatory Commission 10 CFR Part 20 "Standards for Protection equant.
 Redulpts."
 S.2 NUCSH Guide to the Selection and Use of Pertocales Requireless Certified Under 42 CFR 84

5 4 NIOSH Guide to Industrial Respondory Protoctors.

5.5 The Occupational Environment - Its Evaluation, Control and Management Chapter So.

5.5 The Occupational Environment — Its Evaluation, Control and Management Chapter 3e American Industrial Hyperts Association

5 6 Composed Great secretor G.-E.I., "Commodity Specific-tox for Air" a promovement verse.

6.1 Fine Management and Security

6.1.1 Ensure that the applicable Salety and Health Representative is informed of any

parament use or expected most for respirators or a change an process or constrain that may lead to a most for expending protection.

4.2.2 Essure that staff water their supervision are qualified and twent prior to wang

6.3.3 Implementional apply this procedure in accordance with the information received from the Subry and Health Representative.

4.2.1 Macatam debal and current knowledge of sopulations standards requirements opulyment capabilities and good praction affecting sale and effective use of meanings.

6.2.2 Testimo- implementation and effectiveness of the procedure and make incommendations based on those evaluations.

4.2.3 Swaloude shalf exposures and work conditions including medical inspections of magazinary periodices equipment use.

opergrant to go carradges sections and carteriges based on interspeted work conditions or activities.

6.25 Staure in conjunction with management that staff are properly intend and father than the conditions of activities.

with the proper equipment when required to use responsing projection equipment.

6.2.5 Verify that breathing are requirements for supplied are responsibles are in securisation to OSHA, 29 CFR 131.0.134 (ii)

to Control or CFR LEGISTS (1)

6.2.7 Stratute statuspatrid work conditions or activities to determine what respiratory annucles is reconsult.

400

63 Safety and Health Advance

d.3.2 Inspect and manuface SCBAs located as general words of King Avenue and West Jeffensor selec.
 d.3.3 Manuface reservoir fit testing expansions and variety of recognitive protection.

equipment.

4.2.4 Grounts documentation of mantenance and impectors recently of requiritory

6.4 BCO Health Services 6.4.1 Determine marked frinces for warming one.

4 42 Utilize the USAA - approved medical questions in CB CFR 1900 134 A mendia Ci or expending form.

4.4.3 Provide medical or kineton to appropriate Line M-langers and Safety and Health Representatives.

6.5 Respirator Users
6.5.1 One mustase inspect, and store respiratory protection equipment as instructed to meet the procedure requirements.

 a.S.2 Inform BCO Health Services of my personal health problems that could be aggreented by the use of responsory protection equipment.
 a.S.3 Inform BCO Health Services of my changes in health or physical characteristics.

16.g. excourse is regist changes discharse deformation invaling from accidents, preparint; etc. that could affect be use of a majorite.
6.7.4. Northy Sulety and Health Representative of any changes to reconstant usage.

working conveniental process regulations and laboratory protocols etc. so the the use of the requirite may be to evaluated.

4.0.5 Permits paper to Saloty and Health Expressionines consequences on others.

7 0 PROCEDURE

Hazard Costrol

Lise Menagement and Safety and Herida Representatives shall work to develop exposuring and/or educate factors controls to section the need for requiring protection equipment.

protective equipment.

Hazard Appendies

2.1 Each work place or work activity where BSTI employees are exposed to hazardee
condition, that he evaluated by the reconstructive Salety and Health Recreasinghore

7.2.2 Identificates of housels should reclude that is not knoted to consideration of the following stone 7.2.21 Authorse continuously in resease

7.2.2.2 Sagmoning or administrative centrols in place

7.2.2.3 Other potential hexards (e.g. opyons deficient stresphere, confined

7.2.3 States to assert some shall be documented on Ports SDI PM 027 Personal

7.3 Respirator SolveSton.

7.31 The Safety and Health Reconstrictive or material desarrate shall become foreface

7.3.2 Representative and extend shall be NIOSE pertained per 29 CFR 1910 1340ds

observed harberts. Selection criters that must be considered include the following

7.3.2.1 Emergency attackers?

7.3.2.3 Continuous concentration greater than the exposure local

7.3.2.4 Continuous concentration previor than the 101.3 level 7.3.2.5 Oxyges deficient ideosphare < 19.5% oxyges by volume (v/so 10.1H)

7.3.2.7 A demoks warrong properties... taste order syntation

7.3.2.8 (Named state of continuous) continuous or materialities

7.3.2.11 Work recombinations (physical activity temperature/service) 7.3.2.1.2 Put test results to \$600 event respension must be selected if the one

7.4 Maintenance, Inspection, and Core of Respirators 7.4.1 Any supplementary standard counting procedure, (50Ps) or ambooks governing magazitar use will include instructions for the mantenance and over of presumtons.

inspectors shall be conducted by a qualified unity dual to assure respirators are recognize used circogni and stared. Terms reported to recentmence care use and

00				
	7.41.1	Inspection for disfects (fronjecos condition earticópic)	heelbends, volves and	

7.4.1.2 Clearing discrifering and decontamining before and other use 7.4.1.3 Proper damps

7.4.1.4 Stare to protect from durange continuation that scalight external temperature excessive most are and to prevent deformation of faculties and prival them yellow.

facignees and exhalston valves.

7.4.2 Only an exhibiton of index of the SSTI Safety Health and
Emergency Response Manager shall make repairs and replace park, using parts
described for the recommence and influence of the re-to-the research trans-

designed for the response and extracted for the by the construction. Users will table no reports or model-about to any component ruless specifically instructed to do not by a qualified and reland.

7.4.3 The user is responsible for municipancy a good facepiece and in accordance with

instructions received during training and fit testing. Respirators that depend on a functions such as the tollowing provint an effective functions and

7.431 Faced har is the end sees 7.432 Dyeglos temples extending through the seed area

7.4 3 3 Shope of the Sare Sarol Sodores or soom declares or other conditions that would preclude an accounte measurement of responder fit.
2.4 3.4 Protective clothese on the real area.

7.4.2.4 Protective clocking in the said area.
8.4. The Supervisor in congrection with the Sufety and Health Representative in meconicals for determining a suggrature regimer want adolested for congrature congruence on the control that control data area in the control of the control data area from a confidence on the control data control data.

replaced accreting to thes sefectale.

Information occurring segentar restricting replacement rates also may be found in
Appendix A. The useful life of certrifuguit within under user conditions. Conditions
of use include but are not limited to length of time the report for a wiver, audient
thereasters are of one limited to the product of the certificity of the certificity

such at the photol on a scholable to replace the curindays at at 60% of the maximum life supertincy for the selected contridge. At a numerous contridges well be replaced

7.453. If the projected 60% measuram use limitation is exceeded

7.A.S.2 If breekforeigh is detected
7.A.S.2 When the end of service life indicator shows the custodie is empired or

7.4.5.4 When instructed based on expressive potentials.
7.4.5.5 When there is noticeably increased breething resistance on

7.4.5.6 If the certridges have become discarged.

7.5 Voluntary Use

7.5.1 Valuntary use of on A PR is permaneble if the individual is Salety and Houlth Representative approves the use in writing (Peces SHE PR 0.02, Valuntary Responsate Unit Voluntary use in one all served for any other type of avegariting protection is a supplied or responsate in one is relatived if the A PR on Initial's determined to conside A based.

determined to create a based.

3.5.2 Voluntary use is allowed celly where the use is requested for comfort resons by the employee tree the Solely and Bleath Representative who will determine the exposuratives and quart as APR. It will not be exposed for employer to tome

sphotpass mean or using an APA. The Life is not be appropried for exposure to some substance.

2.5.3 When approved BSTI will provide the appropried NXSSH approved APR to be used. Simpleyees will be informed that the APR to be used only for the curroose

800. Exployees will be informed that the APR is to be used only for the purpose for which it was reused and that they are to discontinue use of the APR if they expressed any adverse health effects or difficulty benthing which we are the APR if the accurate they must report to BETH Hodds Services immediately.
2.5.4. The failth and Health Recommendative will assure that the containers requestion as:

AFP under the valuebuy is a provision has recorred a mode of channels to when respirator, (A medical clearation is not needed for a filtering fivespecia.) The Salety and Health Representative will ensure that the employer reads and understands the instructions provided by the manufacturer on use and imminious of

the respector and indicates such by agenture so form SHLFM 002.

76 Use of Seeparahory Protection by Nan-Battelle Staff

2.8.1 CHM 02 CFE SH 02 14 recurrent that recommon sums have been (1) conducilly

evaluated to determine medical laboration response uses (2) properly instead to use care and lambiates and (2) properly in hotel.

7.6.2 Name-ly, non R-della shift an expected to bross their own responses obtained.

15.2 Miles and Battelle shift are expected to thoughter own respondent obtained through their employees respondent procedure.

16.2 Miles and Battelle shift resembles according to the own respective procedure.

7.7.1.1 SCBAs we available in areas where a good for such component has

emergency use. In addition, SCBA a may be rested or purchased for specific projects. A Substruent Health Representative prost comme

7.7.1.2 Daily radiovales by specifically broated to you SCEA empropert you do

the divisions to which they belong. Regional affices and field

7.7.1.4 At a negroups, SCBAs must be respected monthly and after each use. sufficiently technique

7.7.1.5 SCBAs use a portible source of concurrenal or delevered thorach a suppoly for the cylinders is provided by ensetherized vanderand result ment the requirements for Grade D or higher quality as our forth by

7.7.2 Air-Line Resperators

7,7.2,1 Att-line respirators are available in areas where a need for each equipment has been recognized. The six from required sents are Representative must approve the purchase and use of any breathing air stratums to ecoure that they must the repulmentals set forth to OSHA is

7.7.2.2 Coly redendants essentically treated to use our line stemplers may do

7.7.2.3 Monthly inspectors of those located in ground area of King Avenue. and Woul Jefferson are the responsibility of the air line respirator over received by the expensionals dromen. Received officer and field

P-000		
	7,7,2,4	At a maximum surface assignments must be expected manifely and offerent base. A mustly they must be flow checked per manufactures assignment assignment as assignment as a second manufacture assignment as as second manufacture manufacture restortates by a second manufacture manufacture restortates by an endoacted technique.
	7725	Air has requestes use a statuency source of composed air delivers through a logh-grossure bose to the respiraler tecqueen. The air supply tar air line respirators must meet the tecqueent of for Gode 1

Suscindony Dischection Prespect

ar hasher coulder, as set forth by Commessed Gus à sponstern C.7.1 "Few worlds Specification for A.r." Ecommodates supporting this

Emothera our coorpiessom wast be equipped with executable filtratura.

7.8 Removal Offices and Field Operations

2.81 The Safety and Health Representative may delegate an eigher and antividual to

menaging on affiliate requiriting protection procedure. The Sofuly and Norlds

its effective functioning. The responsibilities of the responsibilities of the responsibilities and their Reprocedutive. Their sufficients to conduct fit hots and/or much so the recognition protection precedure may be revoked when deemed necessary by the responsible Name of Records Record Media Location Retestion Feriod Premateria Transag Medical Evaluation Permittent. Extension Response Voluntary Use TSIR STEEN THEM

ESHAQ Cestral Fries Represent Schedule

EXHILO Central Rifes

Permitteet.

SORELATED DOCUMENTS ESTI Operator Code 1340 2.1 "Resourches Protectiva

Supportery Distriction Prespect

APPENDIX A Respirator Cartridge Service Life Determination

Demandration and risk his accordance will a see based an audical mintre, harved to fine rate tharage the custoday. Seagerstain and conventation of the continues of that is being at existing your temperature and relative humsday. The protocol also tests the cartindos at 37 Fee and 25%, and 25%, relative branchine. Thereigh a who of these tests the coveres excludes is calculated to 1.000 mark nor mallion (enter) curben betrachion the and must write be to be concentration for 50 musules with less than 5 year possibilities. NICSH does not lest contridges undary-extra conditions of use.

Methods for Determining Useful Cartridge Life for Varying Conditions of Use

Cartridge life orthogon is resultable through some manufacturers' Web pages. Use the 3M—www.hm.comeography—Thus clock on Batablashing a Chemical

- MSA promissuper combat provide by cutting oder, total
- . Others Check the Web pure of your corticular popularities.
- a CISSIA Manufacture asha alcow(\$1.1 Congrammy afreownath model/yeen

nelses, model descriptive data-descriptive clata.html pr

Coated and Management & "rain of thumb" is promoted for estimating organic vapor

Humsdrift above 85% will reclaim service life by 50%.

- costridos service lefe. The succepted rule of thumb is as tellows. If the chemical's bealing point is > 70°C and the concentration is less than 222 page the expected service life is it house at a normal work rate.

 - Reducing capovertwhea by a factor of 10 will increase service life by a

Battette

Battelle Science & Technology International Safety, Health And Emergency Response

Title Number	Reporting And Recording Occupational Inquests A \$19-GIT-020	and threseous
Ravuros	00	
Ingover	Law J. Dungakin Emol. Gospiech Aboute Sulvey Health And Bourgory Response	and 29, 2004
approved By	Doeslik to Caste Museum String Health And Emergency	4/29/04 Deal
ipproved By	North B. Jackson Monte B. Jackson Monteger, Regulatory Cognillange	5/3/04-
appointed By		5/5/04

TABLE OR CONTENTS

1015 HA Ferm 200A ! ... 7.5.A cross Retretion and Updating of OSHA Ferms 7.6 Program Marakeners

R O Records APPRINGICA COMA Ports 361 Invary and Divers Incident Report.

APPRINGRE D. Calculating Ignery and Illness Incidence R-Ass.

APPENDER G. Becard & organg Flow Chart...

Description of Revision

7.4 Certification, Postury and Custofusion of the Superiors of Nursi-related Asserts and River

APPENDIX R OSHA Form 300 Log of Work-Related Income and Honores APPARENT C CINA Form 2004 Street, w. of Mark Balakel France, and Eleganic

g And Preceding the spatial deposes And Electron 1422 And Encapeuty Response Security

100000

3.4.1 The persons of the program is to double responsible the and nethods by communicating work intelled immension differences to it fails followed and It called by Immentional (SETI) management and designated Gorquinous Sody and Health, Administration (SESI) meccallunger postered for synaptic final lates and multiple integrabitations in the OSSIA. Area Office or this OSSIA, after Office or this OSSIA, office, and for recording work maked squares and illnesses at BETI mount of citizes.

PE AND APPLICABILITY

2.6. This gregory applies to staff number of BSTI including in reposed offices who nation work into its upract or flateness. But member to tooled full time present out and contenses when the properties of the properties. These shall be required to and consequently remarked by the contributor of the properties. These shall be required to and consequently remarked by the contributor.

2.6.2 This program does not describe requirements for investigations of accidents (See STH GP 62)

2.6.3 ESTT is considered a partially execupi reductly under Section. 1904 2 of 29 GFR based Standard Industrial Climatication (SSC) of EF3 Engineering Accounting Session's Massioned and Related Services. A partially record underlying and replaced to know

M-assignment and ficilised Services. A parally exempt industry is not required to keep OSEA triguy and disease records unless taked in verberg to do so by OSEA. The Blums of Labor Stateton 19.51 or a state agency operating under the vallently of OSEA or the BLS Not only as measuring this information of good management produce. BETI requirely

recover ensurancy surveys (rest the 3L), and requests for the information in clean in Requests (or Popular IRPP). Therefore IRST (needs to manufact repay, and filters record to conformation with OSRA regulations and this program. All attrible visual and operated like the said STST (respical (account) related or processed visual and operated Will marriers and report occupational (regulation below). The records A distinguish [1971] is required to OSRA in report occupational includes a service and the resident bits remainly in a faithful re-

PREREQUISITES

DETINITIONS

Authorized Employee Representative An authorized collective bergazing agent of employees.

software Pethagens: Pethagens: excree operant that are present in human blood and on cause disease in human. These pullogers include that are not heated to hepaths it was in NeV 1 and human increased frequency was ONV 1.

Continuinated The presence or the reasonably unbergated presence of bland or other potentially infectious materials on no stern or univers.

Continuinated Sharps: Any confirmative about that can receive the size we have been

Continuated as mode as replies before the other protect on the state change of not installed to mode as replies before digital before configuration and appeared ends of details were.

Benigheted OFAR reconsileacyples personned. Persons designated by the highest reaking officed at the supported of the state word re-local systems, and it invokes for reconcluding to indice and option 50 MA receives and to complete and post the controlled to the state of the state of

improved reports.

Establishment A single physical location where bessess is conducted or where someone for industrial operations are performed. One histories location has only one instablishment, BETT King A views BETT Wild [effection and individual BETT] in manual offices, and first floations are recorded to enablish and individual BETT.

The provided offices, and first floations are recorded to enablish on an action security.

Superior and Montesting requirements

Highest Reaking Official. The word sensor person with managemal suppossibilities of each suppose of the shortest.

repress) office location.

Medical Freshment. The management and care of a patient to constal a disease or disorder.

Medical Medical Investment diseases in relation.

 V suits to a physics or other boomed health one protessional salely for observation and counseling
 The conduct of diagnostic procedures such as £ mys. and blood insta

including the information in preventions medicales used valvey disgraphs purposes

Plant Aud Gree 19 CFR Section 1004.Whitfolie) for a complete last of

O-BUA F rem 190, Lee of H exh-Statemd Injuries and Illuments - The O-HA recordinging from more to had recordable work related propers and illuments of hill B-TT employees whether they are recorded in late, you had you park the solution of the conduction of the propers of influence and part whether they are conducted in the propers of influence and part of the propers of influence and part of the propers of influence and part of influence and influ

OSMA Form 2064, Summery of thock-Reinfold Jajanier and Manasse. This form completed accusily teach coloniary party provides a summary of system and allowed recorded on 1994 Area 200 Globe alloh Australia to separate to only at the form in a compensor place where notices to employees are

copy of the status in observable gates when notice to exposyees an customerally pested. The form court be posted no inter then Followard 1 of the your following the year covered by the records and most remain posted until A yeal 20.

10.544 Form 2011 Improved these foreign Remort. The form remaind for each

Debta Peres Jal, Jugay sain season season season season - The recess proportion for each necessfully work relicted sugary or those that contains the destalled sufferments necessary to enter on USSA Farm Jodi

Other Patronoith Interboom Meternation 111 The following busings body Dania, serves fluid portained. Bud remote their salar in devial procedures are being fluid that is validally contamentated with flood and all both places in sixtualistic works and as difficult or impossible in differentiable between flool; (10.4), and salar or or upon telest floors made shall be not be been flood; (10.4), and salar of or application of the sixtual shall be not be the salar of the salar or or particularly and the salar of the salar or salar or salar or salar or or salar or

Privacy Concern Gree: A product transpol work related uppry colliness to an employ or whose many carnet be entered on the OSHA 300 Log due to the sensitive nature of the injury or sliness.

Personal Employee Expressables: Any purson that the simployee or former employee designates as tack, in writing for the logal supresentative of a deceased or legal interparative designation or former employee.

Recordable Algary of Efficience A worsh recipitation upper or (Timac that reach the general seconding colors alond in 20 CFR 1664 7 and 1864 8 – 1864 12 (fee section 7/6) Reasonal Office — All offices, that are organized under Battelle Science and Technology

International log. King Avenue West Jetteman Disabury: Disyloti

Standard Threshold SAyY: A change in housing threshold influence to the bisection endings
for that employee in an everage of 10 decibels (Ell) or more at 2000-3000 and

Work Environment Includes the establishment and other work loc-draws where one or more employees are working or we present as a conductor of their employment.

Work Related Environce Places. An exert or a present the end exercise contract of the conductor of th

constructing to the construction of the eight that the property of a permitting from construct. Most reliableause is pressured for tignate or till benesies resulting from events to the exceptance unless an exception specifically applies. (Refer to A pseudia E. Hendi Surricia CSHA. Recordinaging Procedure and 20 CFR. 1904 9 No.21.)

5 O REGULATORY AND LINTARY STANDARD REFERENCES
 29 CFR Part 1804 Fecondary and Reporting Occupational Injuries and Illnesses
 29 CFR Part 1810 1830 Bloodcome Publicates

6.0 RESPONSIBILITIES
6.1 Noticel Banking Office of a carb DST1 Represed Office.

43.1 Enter that reproduction staff members have a method to report reputs and allustees and summon energency assistance to each reported affice.

6.1.2 A provid design wird DSBA recordinging personnal and raise with bit resources normany to accomplain the requirements of this program.

- 6.1.3 Person and spip the Souscare of Wash Related Joyanna and Elemans (DSM). Press 2004, https://dx.bitter.com/press/souscare
- e 2.1 faterface with regulators in reporting of fatalities and inalogie hospitalizations.
- 2.2 Verify that processes for reporting injuries and classes have been established for affected regional offices.
 2.3 Periodically assess the adequacy suitability and effectiveness of this process.
- 6.3 BSTI Safety and Health Representatores

 4.3.1 Immediately notify the Manager of Safety Health and Emergency Response of any
 the Safety model of the Safety of Safety Health and Emergency Response of Safety or an America and Safety of Safety or an America and Safety of Safety or an America and Safety or an America and
- work relaind intelling or multiple begatal actors using the Repertury of Patethers and Multiple Magazintentians of USMA Area (Affices) form undided in A pjendor. Files music the complete insister of required information.
 - 4/9/2 Coordinate with and wast regional offices in developing effective OSHA moorelization grateria.
 4/9/3 At the and of such calendar year and prior to posting younly that the OSHA
 - Summary of Work Related In unes and Illnesses his been completed, perform a nearest of the Summary of Work Related Impres and Illnesses and the Log of Work Related Impres and Illnesses and return any corrections or comments to desarrated OSHA, recombination comments.
- 4.3 4 Verify that the certified around some say for the King Americal ecohors has been posted by Pebruary, 1rd of orchyster
 6.6 NSTI Safety Health, and Engreenery Response Advances.
- 6.4.1 Provide standards to designated OSMA reconfidencing personnel and Safety and Nealth Representatives in the development and review of reconfidencing systems.
 6.4.2 Compile and mention control fife copies of the Log of Nigrit Referred January and
 - a.e. a Compare no manufacture prescribed on the Lag of manufacture and Mineson, I leavy, and filters instanced Report and Sentency of Work Existent Physics and Director (OSIA). Postes 300–301, and 300A, respectively).
 4.4.3 Compare sexual produces rates in accordance on the supplied minimalistude shows.
- 6.5 Designated OSHA recordine page personnel.

 Note: Health Services staff are the dissignated OSHA recordine page personnel for the King.

 Avenue and West Jefferson locations.
 - 45.1. Immediately notify the Manager of BSTI Sately Health and Entergravy Peoponal of any work related fatalist or multiple begotherations using the Separated of Pastrines and Marbolic Hampachinshans to USNA Area Offices forms Appandix Elter engage the complete business for foregarded information.

and Investigation Programs SIH GP 021 can be instalted. 4.5.3 Communicate with ECO Medical Director Safety and Health Reposentative, BSTI managers and supervisors the injured staff member and the Werkers'

Congression A discustrator's office recomman medical case dispositions lost 4.5.4 £ cars resignation from on sets and off sets examines observance concerns or

prognous restriction and migra to work date, and significant future teachessed

6.5.5 Complete and update (during their 5 year retention periods) the Lag of Wark Seleted

6.5 6 Provide the completed Surgeony of Work Released Balance and (Checker to the Safety and Health Representative by the 1" week of territory for waters.

65.7 Incompanie commands as necessary resulting from the Calety and Moulth

official of the BST1 regroud office for mevey and certification by the 3" work of 65.8 Dr. Sobraco TC of mehanic retrievability and the Correspond Work Behand to come and illument and reported a course of Special first Supreme of World

Political Increased Electros and related Logs (Week, Raised Increased Tilromor to RETT Safety Health and Research Personne. Note: The Safety and Health Representatives at their describes are remared to post the

certified summary at the KennAvenne Campus. 6.6 Managery/Supervisors

OT EXECUTE TO CONTROL OF THE PROPERTY OF PRODUCE THE PROPERTY OF PROPERTY FOR THE PROPERTY OF PROPERTY OF THE 4 6/3 fests-to-lead consolicte on A codent/Considers Investoration form for recordable cosmon

6.2 Shiff Marchane

Note: For the Columbus-King Avenue and West Jefferson reponal offices, emergenc

The Commission of the Commissi

5.7.3 Report injuries and illnesses to the regional office designated OSHA records equipped participal and layer incasely-to-map on the product.

71 Separation Laurence and Wisson

7.1.1 What to Supert - Report of work in lated regulars and alternors regarding of how mangachoust the regardiness may some. But again of regeneral means that should be reported include but or not known to the following lives in violate on the means falls chemical exposures that should not propose the second or prosume that in houring or vision problems needlestacks found.

7.1.2 When to report. Immediately such medical attention of occoracy using established methods for that reposal of the time report reports and distance in \$4.0 by and Health Representative as more as procious (contails the next working day).
7.3.2 What result country. A \$1.0 for the distance report reports and contails the next working days.

capervisces fixes II \$11 and mentioped appress and changes to both their \$131 apper source of the fixed fixed theoretics.

Note Columbus and a versus and West] offerse regional office shalf must report the uspay or those to both Health Servisor and those experisor.

7,2 Reporting Fatability and Moltigle Hospitalizations to OSHA

7.2.1 The Manager of Sixthy, Health, and Europeavy Response or brighter designor may be DEMA area of their or the Shate CEMA. After cleasures the six of the monitorial vestion registrict. Name after the deshift of any 85°T1 employee trans a version asked on cleans 1 Behalter includely been datable the occurred at vestion 2 are to apartee thought behalter includely been datable the countries. The other of the partee through the state of the countries of vestion are the included.

pulsest hospitularations of there or miner employees as a result of a work reluted mondest.

7.2.2 The complexit must be reported oxilly by talephane or as person to the Fuderal CISHA. Area Office or State OSHA office rescent to the size of the suculest.

7.2.3 Reports by triaghone must be made to a person not to harber reson mail. The Foderal OSSA: toll free created telephone number (1 800-022 6742) may also be used.

7.2.4 Upon lucrosog of a work: selated fieldity or multiple hospitalisations use the five pixeladed in Appendix F for gradence in transmitting required information to Missager of Selety and Health or higher designee.

7.25 Exceptions to OSHA. Reporting Requirement.

- ...,..,..
 - Patabase and multiple heapstalmatons that occur will result of a meter
 value a scalar that occurred on a public street or highway, and not m
 a construction work some de not have to be reported to OSHA.
- subweys or heavy do not have to be reported to OSHA.
 7.3 OSHA Work-related injury and illness Recording paying Requirements.
 - OSHA Wark-related injury and literat for enthoping Requirements.

 7.3.1 Earth BSTI Regard Other with 50 employees or greaterment enthints an OSHA
 movement restore to include manifestion of the Lee of Work Related Inserter.
 - ent Rheeders, Digary and Miteria Invident Enports, and Statemary of Work-Behand Reparter and Element (ICSHA Paress 200, 201, and 200A. respectively). Refer to Appendix G for a process description.
 - 7.3.2 Back BSTI Regional Other with lower than 50 analoyees print other cotalins as OSHA microtherying mythin is directified above or mast succepts with a larger other in reporting and incoording rigaries and diseases of its stall.
 - office in regarding and recording regions and theory of its shall.

 7.3.3 lies be regarded office resist complete that Leg of the Art. Architect Arquires and Wissenson
 and the Scienciary of Work, Brished Francis and Missions, 105Ms. Perces 100 and
 300A) were at its recordable injuries or difference occurred during the year. Extent to
 Ampenda P. Genesiane Reven. Court for Proceedings Work Behalds Supposed difference.
- Note: (OSHA From are available from the OSHA website at http://dwise.org/record/second/OSHA recordings/second/sec
 - recordinarying forms are also meteded in Appendices II, C, and D)

 7.3.4 W cele related upwass and altereses are recordable of they full into either of the
 following two colorance (altered before with examples).
 - Colograms below to the control of th
 - East and A standard threshold staft in Lose of consciousness change in heart of threshold staft in threshold advisity jub threshold or days every firest work. Machine for the standard work and the standard threshold staft in threshold staff in threshold thres
- A myrefront diagnose George-bonal exposure to a ferovar case of intervalous Note Refer to Appendix F for the Decision Flowchart for Recording Work-Related Systems and Obsesses
 - 7.3.5 The regental office designated OSHA recording personnel after consultation with their assigned Salviy and Health Representative must enter encodable regime and ellensmer on the Lay of Work Revited Neutrine and Ethenses COSHA Porm 306

and the Peway and Obers Incident Report (OSHA Ports 2011 withto 7 days of mount of information that a provokable record or diame has provoked

Note: Refer to a upendix C for the Florehart of Work-Related in our and illness

7.3 6 The designated CISHA recordinging personnel must exten the words "priving case" employee mane for cases that meet the criteria of a "provincy concern case" as

log! A case to automotically considered a previous cancers case if it involved one

· An meany or allows to an antenate body part or the regardactive system

- . HIV reference benutities or takercolonic
 - . Needlestick swarps and cuts from sharp objects that are contaminated
- for "other potentially infectious materials defeations" Other resums or illustess of the employee independently and Note: M usualsokelutal disarders are not considered privacy case moreovers.
 - 7.3.7 A separate confidential list must be recontinued by dissipated OSHA reconfinencing
 - 7.4 Cortification, Posture, and Distribution of the Superiors of News, related lateries and Observed (CARRA Porce 2004) 3.4.1 By the 4* work of Tarragy of enchyone an officer of Buttello or remor staff moreher
 - e) to 4 " wask of january or decayour an occurr or summer of some reset manu.

 If the HSTI regional officer must ourly's that the information continued in CSSA.

 Form 200A, is true, accounts, and commisse by afficing hasher agreeture on the
 - 7.4.2 Once signed the designated OSHA reconfluencing personnel at each regional office Form 300n.). The summers must be pessed no later then February 1 (of the
- WARNING The Summery of the ed-Releted Legener and Elineuses must not be removed, altered, defaced, or new read by any other material during the required posture duration.

7.5 A cours, Retention, and Undahmu of O SHA Forms.

3.5.1 A costs to the Log of Work Related Leaves and Histories (OSHA Form 300) may only be given to sufficinged government reasonables or versioners, forces

employees personal employee representatives or authorized employee

7.5.2 Only the exployee former employee or personal employee representative may be

represented in order to abtein the Fegury and Names Incodest Report (CSNA Form

7.5.4 Legal representatives of successciated or decreated surplayees must present proof of

7.5.5 A other and employee representatives may be given access only to the section of the

7 E. S. A. commun. for the Supermore of Blook Religion Indicates and Educates (OSHA, State 2004.)

7 to 1. This document is subsect to a 3 year owney cride.

S.4.5. The forms and expending suformation are to be maintained by the desarrated reconfinences. 8.8.3 During thru 5 year retention period, the I as at Work-Belated Images and Mississes and I de la region de la grante de la company de la confessión de la company regarding recorded cases. The Sweezer, of Hark Welsted Assertes and Wiseseer does not

SIH GP 07 Bloodborns Pathogens Paggrap



Expenses And Recording the systemal I States in Audio And Emergency Pergram-1015 CP 100





A PPENDIX D. Calculating Insury and Illness Incidence Rates.

This crudatery provides a standard method for calculating and program on an annual basis many and

tregging a times reactive of full times toff more be a deviated by release on recording stoff testule of the

[Average #of FTEx=18FIE por +#FTEns +#FTE por 4...#FTE por Vi2]

Estamban Bull Year Staff Hours The number of full translated brancons in extrasted by multiphone the sumon number of staff

IFTE Mours - Average # of PTEx s 2000) Includes Tempency Labor Hyge A COLUMN STORE THE PURCHASING DESCRIPTION of the number of bright worked by temporary employees.

FTotal Staff Hours - FTE hours + Temporary Labor Haund

The TRUE is calculated by diverting total surveticion by total staff hours than multiplying by 200 000. Disks total of surredship invasion and disposes to the surred columns C. M. L. and L. of

PTRIE - Crotal Recordables / Total Staff Hours's 200,0001

Culculving sacedones was for recordable cases savelying Days Awar from work, dues of Restacted The DART rate is calculated by dwiding the sum of cases involving days away from work and days of material work activity or sob-torrafer by tutal staff hours then mailtakeng by 200 000. (Nvisa total of cases resulting in days away, days of restriction or transfer in the seried columns

IDART - (Total DART case/Total Staff House) x 200,0001

Calculating the Seventy Rate 1

total DART year or from our Advanced with handler informed understall mode articular information and affect the own of all ECO

APPENDIX E Fatality Reporting Matrix

Reporting Fatalities and Multiple Hospitalization Incidents to OSHA Area Offices

result of a work related unsulvet has occurred.

references to the Manager of \$1625

The Manager of SHEEL marker porton person the following unformation to the Asso

Engraved Information for Reporting an avendent to OSHA

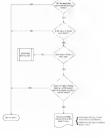
Control of the control

There of the combant Henberof Likhtur -through the days had been reduced by the blood handeled contract

The reason of any report

A land (memotion of the sweet.

APPENDIX F Decision Flowchart for Recording Work Related Injuries and illnesses



Wirek . Related lovers and Illness Recording part Process

James No. 1º man of Arrang

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A" Arrest of January .

Ballelle

Battelle Science & Technology International Safety, Health and Emergency Response

	Geoeral Procedure	
Trile Number Revision	Accident/locidest Reperting and Investigation Procedure 528-CO-625	
Organitor	BOLG Wiscoulle	06/13/05 Date
Reviewed D	Representative, Builtry, Health and Evergrowy Response Challenge Control National Measurement and Training	6/37/cv5
Appeal of B	1 10 .	6/23/05
Approved B	Mod E. Morano Menu, ersent.	elss(oc
Approved By	Settler Mind Mind Mind Mind Mind Mind Mind Mind	7 6 05
Approved P.	Jor Gazest Ance Freedom, Deversemental Sector, Health and Onethy	8/3/01 Date

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1.0	PULIOR	
2.0	KOPEARGAP/LKAHLITY	
2.0	PRESEQUINITS	
6.0	DEPTETTO NO.	
3.0	REGULATORY/VOLUNTARY STANDARD REFERENCES	

1.1 Egymy 6- Leplathekal 5.2 Conductor Se Applications for the Conductor Section 1.

RECORDS BELATTO DOCUMENTS.....

REVISION HISTOR

Rev No.	Effective Date	Description of Revi
- 0	985236	Buolitona STR FF 02

234 C F 22

The purpose of this procedure is to provide quistions to Bitchie Sciences and Fechnike's International Intell's Transagement in Health Savious. Repeated Safety Constructs and BSTI Safety Health and Emergency Response (ISSER) Representatives to set in. the reporting investigation and cleaners and propring procedured in the second cleaners and international constructions with the Construction of Safety and Health Administration (ISSER) regulations and Apparing revolutions and discusses and construction of construction of the conference of comments and the procedure of comments and discusses and second conference of conference and conference and

2.0 SCOPE AND APPLICABILITY
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AO PREREQUISITES

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3.1 ThroughQualification.

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40 DEFENITIONS

Document specific deficutions

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 First AM — Any one time trainment and tray follow upwall for the prepase of the restriction of vacar practice which is not clearly regime readtion in a. sentable ratio bears splacted and so forth. Such one-time trainment, and fallow are raint to the supress of others also a considered first and or on though provided by a physician, or registered priferoscoll proceeds.

 Illness — Occupational illness of a employee is an internal condition or contract with the contract of a employee is an internal condition or designs when the employee is an internal condition or per propose to employee in a contract or a comparison of the per propose in the employee is a contract or a contract or a bir inhalation, alternate a mental or defend contract. accept spring
accept spring
acceptance

Ingery — Occupational spring as a spring such as a cut, fincture, spring
acceptance are which would from a ward acceptance from a

or possure motiving a single moderate the work environment.

Conditions resulting from named lates, such as most or make batts to
from one time expector to chemicals are considered to be regimen.

Lost Workkin — Included days move from with these of methods work

Lost Workshoty — Includes drips sway from wark drips of restricted works
activity or both. This copy included uses that weal formulally have
been worked and does not include the day the injuryabless occurred.
 Managertisupervisione — The presson assponsible for the day to day supervision and the numerical workers are restorable for the day.

of the squareful weeker or responsible for the even in which as incident or near more stateon occurred. This may include any member of the employees class of occurred. This may include any member of the employees class of occurred.

 Medical Treatment — Includes treatment other than first and administrated by physician on by regulated professional personnel under the standary orders of a physician. Noticel treatment does NOT include hint and treatment con-time treatment and subsequent observation of menor servities case, hinter agicative, and so forth wheal do not contained.

 Near-Miss — An explained result which does not cause personal rejecty. Hosse, or clock to result to expansed or properly decays or environmental imment but has the ordered in does.

Recordable Imparytillness — Work related deaths caused by inpares and allnesses and those work related argument/lineases which result in loss

es concensacione instruccion of work or motion, framer to incolor you ar require readical bactarest beyond first est.

Restricted Work Activity — As injure/full employer a problety to perform all

of heather accessed year detection over a contract words shall.

Second Side — A resolvention where acceded 2 total earliest water has been blues.

The following definitions can be found to QS RM 001. Glossey

Connective Action

5.0 REGULATORY/VOLUNTARY STANDARD REFERENCES The procedure complete with the following regulatory and/or voluntary standard requirements.

Regulatory references
 Tiffe 29. Code of Federal Regulations, Part 1964, Recording and Reporting

Remoter Reconfiguration Candel men for Communicatal Improve and Illnesses or lutest

31 U.S. Dupartment of Luber Busines of Luber Statutes, December 17 2002 Federal g) IEST1 procedure SIH GF 000 Reporting and Recording Occupational Insures and filmon, Revision 9 Hrs 13 2304 or loted revision

All Workelly Control Courte Warford's Consensation Clause 1666-1 May 1993 or Lited

e) Battelle Operating Guide Investorating Reporting A codests 1310 1 February 1999

Fil. Biotella Countino Guide funt Auditorgy Reporting 1330 1. December 1974 er Intest.

6.1 Reporters the Accidentific extent 4.1.1. Supreson encommon hale something to established commons procedures for your

43.2 Office anothers to recognize reporters based on your transported knowledge

4.1.3 Report all acceptatorial princes or all severs to your manager or designed

4.1.4 Report other modests or near messes to your manner or designer and sourt in non-

5.2.1 Notification

Remonal Sefuty Contact, of epphosolis and their BST1 SIMBR.

The sprea of any condestinuous should reman undisturbed until the

The manager or their designer shall eather and record perturent

Avoid to be for the firm Бимогов Ф designed as not swall-ble. The reaking on sets manager shall gether the referreday and record purses of anthouses. propagator of to collect the data information and details to perform the

6.3 Documenting the Accident/Jacobert Eurestration

percedurer.

or their designed to report and document any energodist or unplemed occurrence thet interrupts the work sequence or process and new result in many. If loos ony monescatal impact or properly damage. The form is symbols on lines of.

Who stantagens buffalls ormanical subgroup of should use. The form to be felled out lette dephasers kathelia angindasteshappunyat-fault ages. A copy of the correlated report

6.3.3 STHERM 504 A condent bandont Analysis Form shall be contributed by the reseasor

or their daugnes within 40 hours or two working days of the secodes@necities. It is 4.3.4 Follow up and confirm the effects used under correlation of corrective acheous range up and commit the effects unon known companion of energies according to the manager. The SHER Representative may puriscipate.

Houlth Services will follow their records represented. Rattella Policy, and OSRI requirements.

The following documents are referenced by this procedure: STH-GP-020. Reporting-and Recording Occupational Linuxus and Elineagus (Literature) Baltelle Operating Guds: specifically the following): Tab 500 Risk Management Tab 1300 Sufety: and Tab 1600 Hooft's Services . SITE RM 004. Accoding/incident Analysis Form: Decursort Number

Battette

Battelle Science & Technology International Sofety and Industrial Hygiene Program

Tele	Personal Protectors Equipment Program	
Number	\$116-PP-000	
Revince	•	
Oviginatori	Stephen William	25 Jan 101
Approved	Selety and Straith Representative Land Carlot Carlot Donald Carlot	7/22/04 Date
Reviewed By-	Manager, Safety, Houlth & Exergence Response Cort Piercessag	3 /83/p4
Appresed By.	Manager, Quality Monagement Systems & Tauaum White Section Materials Residence Completings	7 (22 (04 Day
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10 PURPOSE ___ 20 SCOPE AND APPLICABILITY 3.0 PROBRETAINTING Tremana AD DOFFNITIONS... 50. RECLEATORY AND LINTARY STANDARD REFERENCES

6.1 Safety & Health Representatives Managers... Employees...

ild Committee 21. General Pargumentaria.
22. Hanne Assumentaria studen Lune Management SSAM Demographica. Studi Designatura.

7.2 PER Salactura Special and Training... Arrendy A. Cordebnes for Conductors (90) Hazard Amores

			REV	ISIO N	HIST

		ACTIMON HISTORY
Rev. Ma.	Effective Dute	Description of Reviews
0	00:11/04	Discussed re-usued under new numbering system. (Pawyous Number STR

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This purposes elected to provide gardene for compliance with the expansion of the Completed Safety and Heilth-Administration (CSFA). Standard, "Carriell Reputament, Personal Protective Department (PPP '20 Code of Pedral Regulations (CPP) 1910.132 and subsequent PPE regulations in this author of the CPP.

2.0 SCOPE AND APPLICABILITY

This program spiles to it ill i delil i Smesor is Technology International (ISTI) shalf including monamed of those said hald spinatore and to all outstances performance work on British in projects or as behalf of British Chair program subdillates are near performance representates. The program does not include betting protokoko in hypothete prefetches PPE and for full prefetches or leser our protokotos. These senses are covered in other propriess.

PREBEQUISITES

2.1 Training New employees warking to lobs shall be provided with home IPE sewences boung. This is

4.0 DEFENITIONS

Personal Problecture Equapment (PPE: clathing and equipment provided to employees to prevent occurs those educated workplace huserful.

SUBSECULATORY AND LUNYARY STANDARD REFERENCES

IS Concerned of Labor OSSA Standard "Concerd Representative Property Principal Principal

 U.S. Department of Labor OSHA Standard "Eye and Pace Protection" 29 CFR 1010.1321 and A mercian N-book Standards Institute (ANSI) 287.1 Occupational and Educational Eye and

PLOT FINISHER

U.S. Department of Labor OSHA Stunded "He-of Protection" 28 CFR 1910 126 and ANSI 2811 - Librarian He Health Protection Historia

U.S. Department of Lebox OSHA Standard "Foot Protection" 29 CFR 1910/126 and ANSI

U.S. Department of Labor OSNA Student * Head Protection* 28 CFR 1910 (28)

Heffelle "Sale Work Prophose Handbook" (Lybest Revisses)

O RESPONSIBILITIES 11 Safety & Health Personnel days

 Safety G. Havidh Representatives
 A sent camagers supervaces and project staff or conducting lamed assessments and classifying proper FFG.

educatlying proper FPS;

61.2. Resure employees receive training on the PPE they are expected to use

63.3 Perceducily review update and evaluate the overall effectiveness of the PPG progress.

na Managers

- 6.2.1 Shown his and easessments are completed for physical axis and projects under their department sections have.
- 6.2.2. Ensure that all affected staff are preparily trained and qualified to use must on and stoce the PPS they are expected to went.
 6.2.3. Ensure nor models PPE to making analysis.
 - 62.4 Ensure diffective or distraged equipment in immediately replaced.
- 12 Project Managers

6.3.1 Secure hazards assessments are completed for assigned projects. 6.3.2 Secure staff secured to respect these PPS transport hand on the hazard assessments.

- 64. West PPE as recurred
 - 6.4.2 A tend required tricings
 - 6.4.3 Use maintain and store PFE or required.

++ HSTI ESHSQ Training

- Entere new employee safely amenistics trusting is provided as a regular-timely basis.

 Contractors:
- 6.6.1. Coeffsetors shall recove a copy of this program. Any questions should be directed to the Battelle coefact.
- 6.6.2. Confineton may be saked to provide a copy of their PPG program suditor hexaed associated supporting the work to be performed to Bartella premises or on behalf of a state.

CEDURE

- v.) Commod Responsements.
 PPE alone should not be reled on to provide protection against human's but should be used in conjunction with exponencing controls, and elementariors controls.
- corporates with engineering metrols, and elementative costrols.

 7.9 Hazard Assessment endor Line Managers and SSH Representatives Stall Destinate

 7.2.1 Such work place or work activity where Baltalle engineers are emposed to hazardose
 - conditions shall be re-derived to determine the need for PPH and white PER is necessary

 7.2.2 The Salviy and Haslift Representative is conjuncted with the Miningself spervisor or
 the game shall be valued astrongued or extual work one-deficient and conjugates or
 - neth that is deformant what PPG is inconsery. Social possible A. Sar resimples of based or degeners.

 7.2.3 Heard is subsened a shall be documented. Sight Neck, Plant and Standard Questing. Procedures we complete of documents which may be used to document has and
 - normanents. For organizations that do not have its internal method to document form STH FM 437 Personal Protective Equipment Hazard A sessiment Certification may be used.

NO.4 When work place conditions, playered languages makerals to use or activities change

23 PPE Selection

7.3.1 Selection of PPB shall be based upon provision of a level of protection equal to or 732 The OSHA students in the retempte section include specific covarients on level on

promorate, by reference standard, that elevate remember it may be organized 7 4 Specialized Trousing

T.A.1. The of PPE that would special and training wall be provided at the time the PPE in rayard to or selected tor affected employees.

7.4.2 Ratherann shall be provided if an employee demonstrators deficiency in uson or carron for PPG based on information provided in previous training

Water or checkness

AD RELATED ODCUMENTS

A poenda: A. Guidelines for Conducting PPE Hazard Assessments Constant a walls through survey of the sense to question. The purpose of the survey is to start by

. Communicated and sever

· Sources of motion, i.e. much may be processes where any movement of tools machine

statement of some

Blectroal baseds.

. Types of chercial exposures.

 Source of light redictors, i.e. welding brigging cutting furnices heattreating high selecting Sources of failing absects or potential for decoming absects.

In addition, invest-codect data should be any seed to belo adentity problem seems.

Sources of high tremonitums that could result in huma eve price or agration of perfective.

Sources of militar or reaching absents which model creab the feet.

Levisi + C

THEFT

Appendix B. Catogories of Personal Protective Equationest and Selection Considerations

front inquiring, mediating, nearry sark, socioething, sessing, srattarq, disastarq, poened featuring, and sending	reyenty request, meres, the control of the control	portaction, goggles, face shalfed for notice [1]. (2), (3), (4), 10) For swere espisiere, ire faceshashi	
HEAT Flavouce operations, pouring, coaling, hot dispains, and votiding	Hot sporks	Freeshields, goggles, spectacles with side protection. For owers commune use faceshield the notes (1), (2), (3)	
		Procedual de vors over peggles: See redes (11),	

Innerspent of Record

Frahertina

shades gas welding 4-5 cutting 5-5, breazing 3-4 See note (1)

		Sea notes (1), (2), (5)
	Splanh from molton motals	Proceshanich worm over coppler See notes (1), (2), (3)
	High temperature exposure	Broom foce shaelds, reflectave face shaelds See notes (3), (2), (3)
DEMICALS - said and chemicals browling, degracesag, plating	Spil each	Depples, eyecup and cover- types. For severe exposure, use face shaeld See notes (3), (33)
	Irratetung masta	Special purpose goggler
DUST - veedearhing buffers, searre) shaly	Baismee dast	tengles everup and cover-

Optical radiation

Welding heleets or welding

LEGIT and/or PASSATERS -

Weldern Electron her Octacel reduction

Welding gapples or welding face shield lynical shades gas veidure 4.0



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area or san rate. Leavening		169-250	12
		750.500	
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		150-500	12
All curbon	Light	Last thin 500	12
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		20.430	
		L00-400	33
		600-500	11
Planne are ratting	Lighter	Law flux 330	
	Mahamet	300-400	
	Heary**	400-500	33
Throb beauty			
Synthas Revog		-	3
Carbon are welding			

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 Clear W halamits as obtained to aspect and presentation numbers, prevale alrefroid periodics from high-voltene conductors (May are proof trade) to 10-200 with 1
 Clear C halamit provide aspect and prestrates mentioned they are retailly reads of aluminum which

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and effective to modulo of the observations from the property of the contract of the contract

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(D) Englopes must be able to renove the gloves in each a manner as to prevent this continuous too.

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Battelle

Battelle Science & Technology International

Safety and Industrial Hygiene Program Plan Safety and Fleakh Management Programs CHARGO AND 0/4/04 114104

Vice Procing, Operations & Systems

MATE NO. 11 ECOPE ARD APPLICA HILITY

PROCEAN REQUIREMENTS..... PROGRAM OFFECTO ES

Safety and Idealth Management Program

HARAN DAYLORGER AND DALLERON
THOMAS DOVINGED AND DRIVENING

ROLESAND RESPONSIBILITIES..... Tracerna New Yorkson 1979 Von Francisco SSE Onder or in Science Services

Langer former Management Server Heaves and Engager Processes

NETER S FOR EVALUATING PROCESS SPECIFICATIONS TRACEUS ... PROGRAM ARTESIMENTS A CONTY PROGRAM REVIEW

A SSOCIATED PROCEETINES AND PORMY ARTERIOR & DETURBURED MATTER DISPLAYABLE STORY SEVERY COMMITTEES

Mection Date

Description of Revision Replaces RCO 22 001 formation of a Cales-

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It stelly a consented to enhablency and manistrating indirections: 12(1) 1 (of comparison) lines the consumers. Battalle improving body 1 6 introduced Sardy and Health Progress dates? 116 in Stell for pelecy to copy with the historial spart of all consumments and the stellar st

This program is applic

incorrency paint part and task work originating train tank years were personnel in segment bordered. The plan intenders per folled attentionation and operating procedures designation responsibilities and socientabilities and describe, work practices necessary to protect offill flocings and the public.

This program is written to describe how #ST1 intends to comply with applicable regulatory

Occupatornal Safety and Health Admini

Ohre Peac Building Code/Obso Pure Code

- Nebonal Fire Prefection Association (NFPA) applicable standards
- Bittelle Openting Guide Sortion 1300 Environment, Safety and Heidth
- Bistolle Corporate Policy 1.6: Economorbal, Safety and Health Program.
 Bistolle Safe Work Processes Healthork

4.0 PROGRAM OBJECTIVES The clusters or of the concess are to

- Describe the event) management of Safety and Health (S&H) for BST L
- Define the key elements and processes of S&H employed by BSTI
- Define less reles and responsibilities for implementing \$5.11
- Provide the framework by which BSTI wall comply with Bottelle's Corporate Folicy on BSG/H

The salety and health program provides a fromework for hazard identification and avalant no

5.1 Hazard Identification and Evaluation

5.1.1 All processed new previous within RSTI one closered through the interrested Risk.

\$1.1.1 As a part of this process, proceed staff are asked to complete as No manuel Edets, Health and Quality (ESH&Q) Rak A seewheat

Constrongers to already usy elements at the proceed project with 5.1.1.2 The orespleted proposal scope and questionnaire are necessed by

concerns are horsely directly to the effection of the project staff 5.1.1.3. To send report staff in presume the ESHAO section of the Internated

Risk Assessment questionnum during the process process quelance in 5.1.2 Upon project waved or instation, project staff accorded to the project are

corpie mentation of all society requirements (sections 5.2 and 5.3)

begands. To address this IRSTI has personal subject matter expert contractors at

Safety and Hoalth procedures within the Safety and Industrial Hypsene Maxial

5.2.2 SETT SSUEC SM well records SESI subsert multir armet us and surrent and

5.2.3 Each SSTI remanation code will have a designated S&H Representative from to identify salety and bookh concerns for each site and seem in preservarespicate that the Hartelle introduction for S& H Reconnectatives.

5.3 Documentation of Safe Work Practices

Winter sale work practices to identify safe work processes and procedures to the performance of proceuts, will be used to document and communicate crafter town and information to stuff. These rose he is the form of Ctondard documents. The tasks or datast identified in the safe work practices will assist in detreaming the training and qualification requirements. Appendix A provides a

working group is wide ton to documents inferreded in 5.2.2. Project staff and

the S& H Representative well work together to ensure proper requirements and

5.4 Committee Review and Approval

5.4.1 IESTI will establish subthy communities to fricultate subthy program

5.4.2 HST1 will establish a Safety Steering Committee overseen by the Vice review operantics for manufactor basseds not covered by other valued matter

5.4.3 The Salety Steering Committee will be made up of representatives from Salety

Management Security Human Resources and apprepriate milited matter expects as peconstant 5.4.4. As a madeline, projects pergre review by the Salety Steeran Committee when

 A potential agents for exhibition of appointments or contact with gives yappen nacticulates, or larged whose trace here the bare not have not have sweathered or

Work product assumption to the production of a large data content of when

rankness receipting a stock stocked agreement and freelates described for each

be exposed to a based indice than routine traffer basenish arround from a Operations of a type that prepares present as paddoxied above, occur in a bacility.

this is newly constructed or soletants illy sizered.

A polyabil costs for secrebons ravolving higgins associated with the following when conducted in uness set operationally or previously unproved

> o. High dructures o Unusual electrical highests

o. Working on over 12 or peer bodies of wider

o. A conveyer hostile asymmetricate and rancins and warranees

5.45 At the BSTI level appropriate subsect matter expert communities will be established to address your fir project safety concerns. Each of the subject matter

description of the current subsect matter expert committees as provided in 5.4.5 Operational Safety Committee, will be eatablished within product lines. The

management in establishing the consingtive and serve as a subject suffer expert 5.47 The Operatorial Sylety Committees are expected to

 Increase safety awayeness and knowledge e Mentify copertunities for improvement

 Sook appropries on safety matters e. Actively communicate safety

6.0 ROLES AND RESPONSIBILITIES

All BSTR shiff are expected to contribute to entail intogs and maintaining a safe and healthy weeking contropment. Written procedures that identify program requirements exclude specifiresponsibilities. The following relies and responsibilities have been defined for emplementing this second.

I.I. Executive Vice President BSTI

- 5.1.1 Provide active landarship for effective implementation
 5.1.2 A summa regional billion for the safe querill greentom of BST1
 - 6.1.3 Frovide a safe and healthy working environment for BST1 staff
- 6.2 General Managers/Division Leadury
 - 6.2.1. Ensure program implementation and compliance within the division
- 6.2.2 Take ownership of the safety program within their division.
 6.3 Non-Frenkland, BST1 Operations 6. Systems Services
 - 6.3.1 Provide S&H support to the Buckston Vice President BST0
 - 6.3.2 Overse the Environment Sufety, Houlth and Quality Systems Management for HST1
 - 6.3.3 Excure B-stelle stell are provided a bookly and one environment

 A. Non-Resembled, MARAO Systems Management
- 6.4 Vice President, IISHAQ Systems Management
 6.4.1 Ergam understation of Battelle and BSVI color
 - 6.4.2 Provide 56 H or cought support and assessment to facilities effective operations and identify regulatory compliance requirements to earlier management to meet
 - that responsibilities

 6.4.3 Essure development and measurement of ESH6Q place and applicable program

 6.4.4 Righthinh and oversee spension of the Salety Streams Committee and establish
- 6.5 Line and Support Management
 - 6.5.1 tenglicment sately and health programs writes their respective organizations.
 6.5.2 Bissure staff engage Sti H inscentors when the level of expertise required is beyond their knowledge.
- 653 Steam staff in their size of responsibility receive accessing tricking
 6.6 Safety, Health and Entergency Response
 6.6.1 Receive disorder to the Vice Provident ISSHGO SM to receive cacheset written
 - "A perture in the development emplomentation and everight of S&H plans and program.

technical support for explanamentag Salvig. Health and Emergency Response progress.

6.6.3 Conduct solute and inspectors to help communicate with and educate project shift on SALV to move a salve were expressed.

6 d 4. A sust project teams in entiring and pre-planning for safe conduct of projects 6 7. Staff.

6.7.1 Work safely nt all traces and munition sale work conditions as accordance with sofuly procedures

6.7.2 Mike suggestion for safety improvement

7.0 INTERFACES WITH OTHER PROGRAMS

The S&H Management Program reterfaces with the teclinaring programs and or functions within BSTT to makin Comprehensive amplementation of S&H requestments. Each of these statistics helps to ensure BSTT is ability to conduct and deliver spullty products and services that meet or

Exerconnectal Protection — ensure sife removal of hausdress wests from laboratories and solutification of agenticated environmental imports residing from projects or operations.
 #ESTL Could's Management Systems and Transport, approin document cooling in process.

BOTT Quarty recompenser systems and a narroy - provide document county, recommanderment, and address training
 BOTT Regulatory Compliance Management - caucar travely identification of new qu

changing regulatory coincid since in thickfule universities a selo existing programs procedures.

Reduction Sufety — provide review and everaght of projects and operations using michosches surfaces.
 Medical-Health Survices — once the medical response to must us and distances common on.

Symptomy and Recovering in the proper shapeon to appare that it is seen and select from the selection of the property of the selection of

Facilities : review design and construction of facilities and interface on facilities maintenance.

 Purchering – establish and implement procurement procedures for hazardous materials or equipment.

 Propositification to - ecoure again and S&H baseds an identified during the proposal stage to ensure secures are included in the project before award.

 Human Resources - thereughly identify jeb requirements to select qualified and copulate candidates and identify jebs requiring local factorizing point to employment. I west — we was ESTI mescalared when appropriate to congregations can provide intermetation of regulators or other remineracity

This plus us a high level document under which more detailed Sufety and Health General (GP). Specific (SP) and Enument Procedures (EP) define specific program requirements. To to suggest the prognet and procedures.

ES NETRICS FOR EVALUATING PROGRAM EFFECTIVENESS Method will be used as indicators of pragmen effectiveness. A limited number of both level

History will be defined as procedures and soorly instructions. Teformation collected from these became hours and safety commutes participates by management. Lagging indicators include

8.1 All new BSTE employees will receive a new employee safety countstion.

basic safety steeps It is Additional safety traceing peggar-meets may be along find as EST1 program plans created.

... 8.4 Safety tricking requirements implemented to substy cland requirements will be

10.1. A passage strained public engaged for regulatory consphenes will be specified in procedure. and work contractions.

and not laboratory transmit offices) weeken source at least tense a year 1.8.3: A max understoning faculties construction/reportshare/demail:too well be evaluated to Renow was a Committee Winds tens Section 12 St Section on swinty review of Sechten

locations will be estated assess to

11.0 PROCEAM REVIEW

13 9 ASSOCIATED PROCEDURES AND FORMS The following documentative system and soft the province

. ECO PP 600 ESHSO Truspa Program HRS MN 001 Human Subsects Research

. BS MM BY Badabas Safata Massall

. EN PP 003. Environmental Macagement Plan.

SIH MN 601 Sidely and Industrial Hypothe Mazzal Documenta

STM FM 171 RST/ Bulk A presented from for Businesteet/meditection Work

APPENDIX A. S&H GUIDANCE for PROPOSAL WRITERS and PROJECT

swithousane. In addition, the checklest may also be consulted must be research smooth blengto.

Does the present or bok resolve proposal harvets such as

Hazardous chamicals (tonic carcinogenic pyrophenic corrects...)

Reactive or explosive chemicals

High pressures e.g. pressure vessels operating above 5 parg High temperatures c.o. above 600 F

High electrical valtage/amperage e.g. above 246 x160 amps. Other high stored energy exemptions, e.g. flywheels appropriate supported weights

Managines structural tests

High structures including model evoted work ladders and scatteldings Confined spaces

Other near-scotting reductions may EMP encountered radar, II

Risklomes! pethocean or DNAJENA work

forming reduction and indicatorings analed/anguled sources radio examined Prohable exposure of the mobile to above hazards Providing a product or system with operating instructions and precautants to

Providing ESG H or regulatory recommendatures to chara-

Farestres sommers and or westons Operating powered industrial vehicles Powder attacked twols

Werking with axionals

- Safety Review Committees (see A mends, RVS, It so, contact the committee

- Do not of the above i checked) stores require an increase in time for process training of
 - state etc. additional equipment for perfective devices or controls, or tachbase for increase of maney or fundings.
 - D. De soy of the above i checked! hexards result to ususual disposal or storage costs
 - dispectually as the critical and physical angles reduced the accuracy and reduced the models was of
 - Submit BSH6 Q Questionnice when completing the Integrated Risk A ssessment Proce
- - Is equipment to g glassware vessels piping machinery etc. I designed and sized DESTRUCTO?
 - Directly respect resolve the use of wardeness, each as forklifts, creases lather devenagrapment of the life are appropriate controls in a procedures training of a raphical
 - Are other project haractic (e.g. chemicals, chemical products a lectural hazards guechanical hogards use of redioactive materials etc.) revolved
 - - te represente emergency agagment (e.g., for extragashers sately showers electron)
 - cut offs, workleams, stall close up lets, etc.) in place and service, his based on the
 - De scientified bazarda, or exte work practices, radicate the need for any of the tellowing? . Property toward and resideful remained to use you accomment or market serv-

 - Premarks information staff of safe work concludes unchading conveniency responses. tise of proper personal protective distingt and empressit.
- Stone and removarious to expression sensing and disposal marks. III. Protect/Open/pasal Stage
 - Are purpolic inspections necessary to ensure sate facilities (e.g., conducting monthly 50 H inspections of the smaller including checks of the fire extinguishers dreach hoses

 - Are sale work precious and procedures sudged to exage they are being tallowed? A m newtons modified when madegade or as poembors dictate?

APPENDIX B. BSTI SUBJECT MATTER EXPERT SAFETY REVIEW COMMITTEES

Review, and approves all receipth activities and specific amongs for handling hadomical materials

Harrise Subjects Committee

Reviews all teasurch activities in which business are to be used as subjects for experimental

Institutional Biosafety Committee

molecules. The committee will also review work with organisms and virtues confirming recombining Laser Safety Committee

Pressure Vessel and Systems Safety Commuties

Local continues units in a hadronic commisse of 1000 peg (prends per secure units)

. Cas conforming units in or, expenditured that operate at 5 year programs. A NO most the

For enturps: the following pre-sons and volumes ment or entured the PAP of a pay out. A product of the PAP of a pay of the PAP of the Company undeed. Units operating below's goog of any size one not considered presum-vessels or systems by

Radiological Safety Committee The Radiction Soletr Manes (RSM) rackeds a detailed list of process and situations that require The Radindon Starty reseases (ASA) increases a determinance property was assumed and compare serving by the Radindonnal Salety Commission. Any provide or commisse, apply individual maximal.



Battelle

Battelle Science & Technology International Safety and Industrial Hyglene

Program Plan

Take Cheeses being histoneurs beggers
Stater 20 of 10 of 10 of
Stater 20 of
Stater

- 50

 - TRAINING

 - PROCRAM REVIEW AMOCATES PROCESSES:
 - APPLACES B. RECOMMENDED HANDLING PROCEDURES FOR HIGHEN MATARROLD.

Description of Revision

the "Hazord Communication" or "HAZCOM (29 CTR 1919 1299) ranging and the

BOUGH

er niore hazzodous obsenzela. 3.9 REGULATORY/VOLUNTARY STANDARD REFERENCES

4.2 Sofety and Health Reserverstators

4.2.2 Sufety & Heinbit coppreciatives in conjunction with law managers are also copposable for revieting that program effects counts in evaluated assignable and that classics are made haved on their silvation.

5.0 FROCEDURE

5.1 Material halety Bale Sheets (MSBba)

5.1.1 MSDEs that are received for horazdous chroscolar materials are available frees the MSDE coordinate, the Saloty & Herlift approximatives, and by recursing the TRM system (http://www.batelle.org/sebbenset/). In riddaton, the December of the MSDE detailable is regulated to explicate for the control of the Army Saloty Saloty

(http://www.bitacle.org/bicharph/to/restources/toods.stoc)
NOTE: Not all regurnal affices have access to the TEC distabases, Contact year
for the first the second of the distabases, the third of the third of the second of the

Safety & Health representative for information on MNOSs.

112 The staff receiver purchasing a charactel in responsible for exquasting an

the appropriate Selects of Health representative or contact the MNOY population.

5.1.3. If MSDEs are assertables on son observable as one do put loves on MSDEs, sorth abodid contact the observable supplies of their respective Salety 6. Health representative.

5.1.4 If the HACCOM standard applies, OHEA requires that an MMBB be available on-one for all bacardous sheatwarts used. Therefore, the staff recurber shall be a staff recurber shall.

representative, to obtain our
5.1 6.2 Not use the obsculed antil 1 MVGPC one be formed.

5.1.5. If the Lab Standard applies, the staff exember shall entity the Sefety & Heelth approximations as that habbe one cooser that percentation are identified, because on identified, and labels are operaported.

supplier. If a staff correler receives on MSDS derectly from the supplier, he/she is responsible for sincling a copy of the MSDR to the MSDR correlations for the inter-Amadement copy whealth the next to the BSRI I believe Health in Emergency Response IMPERS Office (Room 1719, Kong Avenas.)

Health 6. Emergeory, Response 1649/RX3 Office (Room 1719, Keig Avena,)
5.17. The BST1 8/0-ER Office insentance 6 control dile of MSDBs from the observed
applican for URT1 and will expert the new correct MSDB evolubility upon
sequent.

 Each non-labbrainty non or arction (unbloking pilot plants) will mainten a negada's as soluble fills of MSTPEs for hazardinas chegasosis or substances used a strongerous. 5.1.9 Each laboratory operation is encouraged to enterstus a file of MSDSs for

5.1.10 Whenever's hazardour shousand is considered to no changed to continue

5.2.1.1 Original labels and becode shall never be respected or defined

4 5 1 4 Wacors or a humahout chemical in tempforced by p., shapped) to

vanisher location, the label most obsolub, the manufactures, occaving

5.1.1. When accommy chooses accordance will be conjected by SNSR staff or American Conference of Gavernmental Industrial Psyspensis (ACGIFO)

5.4 Hazard Determinations and Faultinian

5.4.4. The station of the DNTI MNDR shall provide as electrons, version of the

6.0 LABORATORY OFFRATIONS

manipulated by dot servee. This definition promits exclude, prior above operations

6.1.1.2 Force bands must be expensional in money workers order. This is to be

6.1.2 Personal Protective Egoperant (PPE)² PPE, noch to midely glasson with sale blorids, gangles, face shade, gloves, and species or required observed there is a risk of direct cheracial context, exposuredly for those observicial where shis and approximate probabilities. It forwards Principles Procured Marcol Assessment Control Principles.

Enganes

6.1.1 Resources Protection

complete new very experience season in administration with the complete new very experience and included a complete new very experience of contractals. The use adolescent, resthant is potentially learned on convergence of contractals. The use adolescent, resthant is relationate, and for energy are constituted by the Softly. A fitthey representative on the Health Societies Constitute of the Softly Softly representative on the Health Societies (Softly Softly Sof

6.2 Highly Hexaedran Materiolo

- reproductive towns, and scatcly town whitemen, requires the prior review by the Nation of Horita opposituation.
- which two standed designated mean decorate participates operating procedures specific waste based up procedures, and PTE
- cachaded in Appendix B. Contact the Solids B. Hoolds representatives for numerical a subspecting the cheericals in use
- Medical counsisteion and surveillance direngly (finally Bernary (614-424-6337) in available to all blocenium suppliesees, especially if 6.3.1. A small surches develope rague or synaptows believed to be associated with exposure to the hamolous observedict.
- 6.3.2 Air memoring data solution that exposures the thorse operationaled layers
 (it g., PEL, Assess Level)
 6.3.3 An apprical such as a look, and Lor explosion occurs that results we a potential.

NOTE: See Appendix & for "Compliance Chroking" The services malhors the propoporards that profy to not laboratory areas. Non-laboratory

7.1. Non-Laboratory Area General Renairements

used in own lebensery some

7.2 Hazardous Non-Boutine Tooks

experiency procedures that one be taken to proven or reduce

7.2.2 Expension of hazardous non-equipments is a that must be performed by staff

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Cooffsed Spece Entry 1	Oxygno deficiency; exposure to touch mesocycle fire and explorion.	
Work on New Or Experanental Equipment ²	Steed copy: Electrical, mechanical, previously;	
Chemicals in Districted Paper	Honordous chronicals and gaves carned in the	

7.3 Outside Contractor Personnel 7.3.1. The Safety & Hoofth expressioning for Facilities will be the proper contest.

7.3.3.2 Procusations the contractor's personnel should take to be on the

3.3 d. Outmin continuous mans editors to the solute and health executions upon that in

NO THAINING

S.1. Flowers, HAZCOM and Lab Standard Transland

Treasure received he due Lab Standard for unners) special to performed for all

E. J. 3. The Joseph and excelelates of Material Sofies Date Shoets (MSDNs).

E | 4 Methods and observations to detect the relasse of lausardous characters in the

8.2.1 Rater to cockon 7.0, Non Laboratory Operators, for intentions resource.

SA REDCE AN REALIST

 Resources Properties Dependent SULCIP-600 Laboratory Flood Program Sild-GP-004

. BCO Greates Usale 1340-1 Based Control-General . Diagnostics of Chemical and Reducative Works and humbar EN-GP-007

Appendix & Comelines Checkfor

DANA O New York Committee classes on the DMIA PPE Swadard. Choracal hearty

Written percentures must dettel how the product late will excepting a hexadous character.

HAZARDOUS CREMICALS 2. Provingers for additional people for people for work with the following consequence

· Select Concurrence

5. Keep the containing alread to the extent normals to record as recorder the release of

APPENDED D

FIXE PROTECTION AND PASS INTION REQUIREMENTS

PURE PREVENTION AND PROTECTION PLAN

there in processors plan was written to address the pseudok based amounted with the undergooned strongs but the part of the control of the part for the based problem in the control of the part for the based problem in the management of the part o

FEADMARKE AND COMPARTIBLE LIQUIDS
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NFAXAN or either agreement and an under the importance of a qualitate posses. The year-septement of Statemarks and conductable legiste associated with the pays statemark potential green from quantities
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20 m C with propried on one series.

remonard conducting the pape testing shall quark meetally against any yart of their clothing becomes performanced with flammable or constructs be floaty. They shall public allowed to continue work defloop becomes contaminated, and they prest payment or with down the clothing or soon as poss

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recan instruction repeat on some or national provider that are trained to promptly and using regions leaking on quick. The disapposing illumentals and considerable begind:

a All prompting appropriete train for the baseder of filminishs and construction layers (self) to lated by a nationally acceptanced bestup laboratory or approved by and labeled or tagged to accordance.

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approve indicating within Tataneserap by makes or an parameter for declarate or parameter problems. A same which flatments to content this large that are transferred at parameter than IRED LI time one tool or contents to content the large and he supported from other spectation by a hoof. - Personner and shall be protected as and realloans durant by notable many and personnel.

o Lamps laritum beston fewers and corner and sandar soughwantshall onto filled white Diggreening devices shall be mad cover at least 20 (600 m) from any activity meshage fixed.

THAT RESPONSE THE PROTECTION Portable tem extraorogicos aball ha marcadad se base martad se emerciad se Valdo II.4. Pero extraorogicos shall be removed morehow and quantumed as procedure to NETA 10. Europets shall be least on a tax or

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a. Coperal processor of fire extragressor was and the housels covalend with pressent characters. factoring to all employees, and 3. Use of the angregation for facilities next propert to those one loaner distanced in an engagement. achievarian to tree fige factors recovered.

No facultable has femalet where the fear or an automorphish property contact with productions, all automorphish has

ATTACHMENT 2

Safety Compliance Agreement Form

Sib-Confront No. Project No. ARSO

I solvewinder that I have read the sofermates in the Beakl & Safety Plan. I understand the site hazzeds as described and opports country with the contents of the plan.

Signature & Painted Name	Cenyany	Det

Date Tone Joh Hugher Class Address Str Leaders Location of Gallecing Aires Scope of Work SAFETY TOPICS PRESIDENCE Anbahror Plans Meeting Conducted for See Safety Differen

AIR MONITORING DATA SHEET

DATE	TINE	LOCATION	INSTRUMENT READING	COMMENTS
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San Safety Efficer

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Accident@noident Anabusis or investigator in recordeds the livel and special positionalists and return of crosse to Chrone \$1000 Personners for Nike President (1984 at an Indiana) DANK Floor THE RESERVE ------

ATTACKMENT 3

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The safety supervives should suppose the deciting at least failty for structural demage least to be used note proper treasure or that i draws, least or meaning greater or protection covers, Glood belts, demaged horse, send on degraphic pressure gauges and pressure order walkers.

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14. TRANSPORT INFORMATION

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1. TOXICOLOGICAL INFORMATION

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13. DISPOSAL CONSIDERATIONS

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U.S. INVESTORY (TYCA) Label as assessing TYCA TIGH EXPORT ROTHFEATION Harboni

16 OTHER INFORMATION

ACCURATION AND ADDRESS OF THE PARTY AND ADDRES



L CHEMICAL PRODUCT AND COMPANY IDENTIFICATI

MDS INPORMATION ST STEMS. INC INIT Manforedato Nosé, fails 200

1 990-014 9300 (EQUITH A MERICA) 1 793-027 3007 (DYTERSATIONAL)

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CREATION DATE: Mar 00 1000

2 COMPOSITION INFORMATION ON INCREDISING COMPOSITION INFORMATION ON INCREDISING

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HAZARDS IDENTIFICATION

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7. HANDLING AND STORAGE

OCCUPATIONAL RELEASE

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B EXPOSURE CONTROLS PERSONAL PROTECTION

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ETHTL ALCOHOL (METHA NOS.

ACCIN TWA (skin)
ACCIN STEL (skin)

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16, OTHER INFORMATION

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1.7 MATERIAL SAFFTY DATA SHEFT

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& EXPOSURE CONTROLS PERSONAL PROTECTION

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16 TRANSPORT INFORMAT

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18 MATERIAL SAFETY DATA SHEET

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120 ppm 1420 on 2mD NEOSH recommended STEE.

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11. TORGOODECAL INFORMATION

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15, RIGULATORY INFORMATION

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ATTACHMENT 5

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Program Plan

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TELL TOPE PARTA EN ARTHE PARTE . PROGRAM PROGRESSIONS Karolston Shodosh V. Onday Shoul cells PAGGNAM DELECTIVES

HSTE ESSENCE Theorem Program

Lay Proctom and Services ADLESA ND RESPONSIENTING You Province ISSHAO System Management

ESSAG Training Excellenter NVII Corports and 1100 Lab Ope Managers: Experience: and Propert Managers Introduc ALD Transport and Development

DITEMACES WITH STREET PROGRAMS Radde and Markly Management Program Tallator Salato 1-00 Wests Management Man

NETER A POR INAL DATING PROCESS SPEEDINGS OS.GP.807 Turbuner Paeibark*

PAGGRAW A SATSSWELVES A CIDITS......

ESSEQ New Staff Cherriation Feet Thomas Enemy TEAUSING.....

PROGRAM DIVINY ASSECTATED PROCESSING

Rev No. Effects the Description of a relation of the state of the stat

Revenue 9

NSTI 2596.0 Thesay Pressur

IST 2506.0 Thurse Pressur

The moreon defense the recovered that the Environment Culate Navith and Assista (DESEA)

2.0 SCOPE AND APPLICABILITY

annish ratus, actualnus for BETI. Communia and B.-Hall a Calembras Commission (BCC) I ab Com

3.1 Battelle Standards

Bioticile Corporate Policy 1.6 "Environmental Suick, and Health Program"

- BottoNe Opperating Guide Section 1390 5 "Sixfety and Health Transport . SIH PP 100 "Safety and Henlih Management Program"
- . IS MILEST TRANSPORTED MAKEN
- 8.5 FP 903 "Regional Office Radiotion Safety Manual"
- . BY FF CCI. "BCO Waste Management Plan"

THE PURCE "Transportation Management Plan"

BottoNe Sub-Work Prophore Handbook 3.2 Regulatory Standards

The obsectors of the ISSIAO tracement reserves are to

- Trife 29: Clade of Finland Residence: Occupational Solicity and Health Advanced Inter- Trifle 40 Code of Federal Regulations: Environmental Protection Agency
- 3.3 Voluntary Standards
 - 190 9006 2006 Ocality Murganment Systems Recognises to ISO 14001 2004 Territorional Management Systems Requirements with Oschares
- 48 PROCEAN OBJECTIVES

 Towers to the framework whorely RETE Companie and BCO Lab Ope shall selecte. exhaustrative and transports removed can obtain the no carrier still and knowledge to Define responsibilities for identification of training receit and methods for meeting these mental
 Movedly who conducts and coordinated training in invariant this judgmal state and local regulatory symmets such as the Consymbol Subject and Health Administration the Ball received protection of programment of the Ball and the Same received Protection Agrees and the Same received Protection Agrees and the Same received Protection Agrees and the Same received protection of the Same received Protection Agrees and the Same received Protection Agreement and Same Received Protection Agreement Agreement and Same Received Protection Agreement Agreemen

5.0 PROGRAM DESCRIPTION 5.1 Overview

5.1.1 BSH6 Q Tracing focuses on establishing BSTI work whitefacts procedures teals and guide have their provide an integrated approach to tracing and qualification while if foreign pass mean floribility to rever device organizations seeds.

5.1.2 Bilifi-O Tricking utilizes a systematic reproach to the studyers design development supplementation and evolutions of premise. This approach is through on withhelm for determining was implementant tensing their subsection than soot on the premiserable to the jail. The forestancy and service defects is short to subsect on premiserable premisely on the basis of complexity, contempendous of suppreparation performance and hashed promisely and evolution.

5.1.2.1 The majority of ESING Q travering requirements result denotity from regulatory requirements and derivers.

5.1.2.1.1 The HSINGO TRANSPER Denotities in closely alamed with the

Incurred.

5.1.2.2. Other immage prequented to an electrod little project or continues greather needs. This STAR D. Towners project mentioning upon management of proportions for little properties for little proportionally for electrodying and intelligent properties to list in responsibility for electrodying and intelligent properties the same product This STAR D. Towners properties which with the wassers and forcewards to continue the transmiss exhibits to be used these wassers and forcewards to continue to transmiss exhibits to be used these them.

5.1.3 The SSIGEQ Systems Management experiments have established the following minimum expectation brazing requirements for new SSTI Corporate and BCO Lisk Ope staff:
5.1.3.1 All servly based staff as well as interest subcontaction and response processes are resourced as resourced as the RCO SSIG 27 Personations SSIGs and

Health * Parts 1 and 2

Term

5.1.2.2 Stelf a will as retries uncontrictions and temporary personals assigned to ware to a laboratory or a stead absolution statement as a flar required to take 8CO 0014 "Chemical Safegy/Heared Coccanoscophase 18:00 8017 "Personal Protective Equipment "and HWO 165, "Laboratory Winds Handling"

9917 * PERSON PROCESSE EQUIPMENT - GOLDW O 105, "Licotroley Whole Handling".

5 Key Functions and Services

5.2.1 Using a system-to approach BSHEQ Truning provides tracing core's malyon.

and design services in Progenised by Coharmers.

5.2.7 Transmit development services provided by ESHAQ Transmit include applying any travalar methods in the development of transmit programs and crasses brazing maternals. Control transmit maternals. The development of a wards is considered and maternals. Control transmit maternals. Contr

ial seasos richianis carezone ser invary season perspectivo computer intrancia file de bosco traza que con los obrazones acid serciama is collaboration set sobject carezones SHEG 85960 Trazang can develo primario pre e acidanos algoris collidarios particidarios de los existances S-23. BSHEG Trazang provides instructional services e a sinda regio el supor se representa and directel fig. continentos. The Exemplicada land sinda planticipal personal propuedra and directel fig. continentos. The Exemplicada land sinda planticipal personal.

topics 3506 Q Training can import requested brising using internal adjunct staff, other sciencial SM for and enternal training workers 5.2.4 BSM 6-Q Training provides for using evolutions and self-investment services to

BST1 Corporate and BCO Lisb Oper managers and supermans on responsive.

5.25 Through its course c-taking scheduling and registration services BSHGQ Training privides a mechanism is solven staff shock would be BSHGQ violated beauting and a method to proble soft by services for training. Self-members are also as with the contract of training of the members are also as with the contract of the training of the members are also as with the contract of the training of the members are also as with the contract of the training o

in method to enable shall to regular for increase. Shall recenters are also restricted mental ESHAG retraining improvements to enable them to reconstructed as four qualifications.

5.2.6 BSHAG Training prevides BSTI, Corporate and BCD Lab Ops miningers,

compaire distables froming records on completed staff training limetings and other arching related acturates. HSHGQ Training also casesterme-regard record express of all approved training resterned such as lesson titles, student branches, and exemptates.

resternis such se lesses plans student handouts and extramatures.

5.27 BSHEQ Tracing provides a mechanism for identifying and documenting behands and instructional competencies models to believe effective teaming for instructive includes of instruction provides on the sub-tracers and tracing.

6.1 Vice President, ESH6-0 Systems Nanagement Developmend promplates ESH&Q policy and quadence with input from the BSTE

6.2 Manager, Duality Management Systems and Training 4.2.1 Provides leadership and overall direction for maretering the ESH&Q Training

Program. e 2.2 Manages the sategration of VISSON surbatives sate the ESSES Q training function.

6.3.1 Provides direction and control for regalementing and municipant for ESHSO

Supports BST1 management with transport and qualities to activities for staff softens subcootractors and temporary pensamed to perform their assigned week. A receivant because restained and instruction for occurses before transpared of family

5.4 BSTL Corporate and BCG Lab Ops Managers, Supervisors, and Project Managers Ide party staff XXXXX D proving notific and ensure staff are trained and crash had to

based on regulatory and present specific regularments for son powhors under their sames of avapora-chalts.

regramments and present, or customer specific needs. Maratica current knowledge

6.6 Instructor

6.6.1 Develops and/or conducts training as accordance with the RSTI ESH6 O Training Because that training document organulation, attendance sheets eparameters? are correlated, moved by the transes, and submitted to RSHA-C Transportor.

- Supports ofference to British policies and alreaded for sels work precions.
 Habbits processored behavior in the clasmoon, laboratory and held.
 KAS. Achieves and municipal professional and technical multipolicies.
- 67 Student 671 Amyres on time for instance and recount for the entire sension without
 - retemptous or districtions including returning free breaks.

 4.7.2 Makisht protessored behavior in the classroom, laboratory and field.

 4.7.3 Ferturnates schools and controllers in a resolver manner.
 - 6.7.4 Provides threly and constructe feedback on the electroness of the training and makes aggle-base on adultional training that night improve job performance.
- 7.0 INTERPACES WITH OTHER PROGRAMS

 The ESING O Truesny Program miniferes with the fellowing functions and programs within 1851 to facilistic comprehensive implementation of regulately and basils regression.
 - ESH4-Q Trauming works with the Buttelle Corporate Trauming and Development, organization to leverage design and development resources scross Battelle and from tallowed sources in order to deliver effective and efficient framing services.
 - 7.2 Safety and Health Management Program
 The process for standard gets potential occupational safety hazards associated with any
 BST procedured the procedurationary or combinations, content for stall to social.
 - Program."
 - Radiation Safety
 7.5.1 Guidelands for determining the level of redection safety framing programs for British Columbus statt, based on the naturity the statt reveniber will be performing any contained in RS MM 001. "Radiation Safety Manual."
 - 7.3.2 Guidelines for delicrescing the level of individuo integli truning required on the activity for staff member or performing are or staned in RS PF 003. "Regional Office Radiabos transit."
 - Name:

7.1 BCO Training and Development

The returns mecrosiny to ressure that wristle headling packaging transportation and disposal activators at Buildful are performed in accordance with applicable believed state and local regulatory requirements are described in EN FP 001 "BCO W arts Management."

75 Transportation Management Plan

The removement that all staff acting to HAZMAT employees have documented traverage transported or offered for transportation is stated in TRN-PP-001. "Transportation

26 VISION

VISION as an integrated appears in improving constrained stately health and quality performance. Staff training needs may be stendard through prejented and of VISION

BO METRICS FOR EVALUATING PROGRAM PETROPHYSICS.

An important element in the continuous improvement of truncing is the evaluation of truncing B.1 QS-GP-007, "Customer Feedback"

OS DR DDT "Customer Souther's "defines how to document remove and modes. customer tendback received by ESH&O Training in other verbal or writen form.

B.2 QS-GP-80B, "Customer Satisfaction Survey." OS DE COR "Customer Substantion Survey " defines how cody your substantion removes

are conducted regarding the services provided by the ESHN-Q System. Management armountae.

ESHAO Tracked massics, the length of time frees exployer date of box to cancelstop of

\$5116.0 Transpared conduct remode next transparence of staff and their consequences

The process for tracing and qualification of BSHSQ instructional personnel and contract and Gestal asstructors as described as ESHO TRING OF CCC, "ESHIS O Instructor Tracesee "

10.1 Totareal federandent Assumption Internal independent exercutarests will be conducted on a periodic basis to determine the

10.2 External Aspergments External re-escreents more be conducted on a periodic bears by organizations superate

· A Row ESNIS-O Training to learn how guitable prepared tons your the training program

Allow ESH&Q Trusting to compare its trusting progrem with other backing progrems for mostific representation or traderors.

ESHO TRNG GP 001, "ESH&O instructor Tructing"

BSHO TRNG GP 003, "Preparation and Revision of BSH& D Tricing Materials"

ESNO TRNG GP 004 "Identifying ESNIGO Triving Requirements"

ESHO TRNG GP 002 "BSHAO Transpra descriptions"

12 8 ASSOCIATED PROCEDURES The following documents are associated with this processor.

This program shall be reviewed every 2 years.

ILG PROGRAM REVIEW

Battelle

Battelle Science & Technology International Safety and Industrial Hyglene

Program Plan

Table Concess both philosophers request statute \$2.000 miles \$1.000 mi

- 50

- TRAINING
- PROCRAM REVIEW AMOCATES PROCESSES:
- APPLACES B. RECOMMENDED HANDLING PROCEDURES FOR HIGHEN MATARROLD.

Description of Revision

the "Hazord Communication" or "HAZCOM (29 CTR 1939 1299) ranging and the

BOUGH

er niore hazzodous obsenzela. 3.9 REGULATORY/VOLUNTARY STANDARD REFERENCES

4.2 Sofety and Health Benevoratety of

4.2.2 Sofety & Health opprecriations is conjunction with law managers not also cooperation for reviewing that progress effects cours is evaluated assumbly and

5.0 FROCEDURE

5.1 Material halety Bale Sheets (MSBba)

5.1.1 MSDEs that are received for horazdous chroscolar/materials are available from the MSDE coordinates, the Saloty & Horifit representatives, and by recessing the TRM system (fifty from battell enginebian seet). In riddition, the Decayational Label Services ARSS detailed in privilegies or will from the Horizonth be.

NOTE: Not all regional afficies have account in the TRC statubases, Contact year

Suffry & Health representative for information on MSONs.

5.1.2. The staff regular purchases a charactel or reconneble for measuring an

MSDS fives the manufacturer of the large of proclame. For assistance, continue appropriate Salety & Hoolds representative or contact the MSDN confidence.

5.1.5. If MSDEs are anavorables on one observed in one do pochiva no MSDEs, not should contact the observed supplier or their respective Solecy 6. Health

5.2.4 If the IEACCOM standard applies, UNIOA requires that an MMHR be available on-site for all laundous thesases's used. Thursdoo, the staff cacular shall.

representatives, to obtain one
5.1 6.2 Not use the obsculed antil - MVGPS one be focused.

5.1.5. If the Lab Standard opplier, the uniff erember shall entity the Sefety it Health approximations as that hashe one course that presuntation are identified, bookeds one identified, and labels are operaported.

supplier: If a staff coember receives on 54505 derectly from the supplier, he/she is requisible for sending a copy of the MSDN is the MSDN coembassic for the inter-Amaderseed copy about the next to be SNN I believe Health is Emergency Response 1545 ER) Office (Rosen 1719, Keig Avitaa.)

5.1.7 The BSTI SHITER Office mountains a control (the of MSD8) from the obversed applies for USTI and will supply the most covered MSDB stocklebs upon request.

Exacts non-laboratory neer or section (undudant print plants) will mainten a readily as infeltile file of MSDEs for harmfunic chemicals or substances used a six operation.

5.1.9 Each laboratory operation is encouraged to measures a file of MSUSs for

5.1.10 Whenever's hazardour shousand is considered to no changed to continue

5.2.1.1 Original labels and becode shall never be reported or defined

4 5 1 4 Wacors or a humahout chemical in tempforced by p., shapped) to

vanisher location, the label most obsolub, the manufactures, occaving

5.1.1. When accommy chooses accordance will be conjected by SNER staff or

American Conference of Gavernmental Industrial Fix presents (ACGIFO

5.4 Hazard Determinations and Faultinian

5.4.4. The station of the DNTI MNDR shall provide as electrons, version of the

6.0 LABORATORY OFFRATIONS

manipulated by dot servee. This definition promits exclude, prior above operations

6.1.1.2 Force bands must be expensional in money workers order. This is to be

6.1.2 Personal Protection Epoperant (PPEs)*
PPE, note to notice plasme with sale should, a gragitar, focustantial, aboves, made appear on required whereith there is a soft of denot obstrated contact, exposually for these obstractals where shis and trye context are prohibited. In Personal Protection Exposured Hancel Assertment Contributions of the Personal Protection Exposured Hancel Assertment Contributions.

Programs 611 Remarker Protection

Requestes are well be required whenever in househous chimicals is used and crance be exclusivated drawing thermost from because on other visualization use conditions well require the wasker to potentially hausehous concernation of changes of the significant control of the properties of the properties of the properties of constrained by the Softly, A Finalth requirementative and the Hardin Softly and constrained by the Softly A Finalth requirementation and the Hardin Softly constrained for the requirement but requirements was a deliverable to Softly and constrained the requirements but requirements used a deliverable to Softly and

6.1. Highly Hexaedran Materiols

- reproductive towers, and restrict force maintenants, response the prior review to the National Hardin approximation.
- 6.2.2 Their variables must be instituted occurring to specific operating procedure which new institute designated overs decorations on procedure, specific waste banding procedure, and PTE.
- cochaded in Appendix B. Contact the Stalinty & Health representatives for assurance is categorisms for cheericals in use.

 Medical Consultation.
- Medical counsisteion and surveillance direngly (finally Bernaus (614-424-6337) in available to all blocenium suppliesses, especially if 6.3.1. A small surches develope rague or synaptows believed to be associated with exposure to the hamolous characterial.
- 6.3.2 Air menerolog dass solicam that exposures the thorse operationaled layers
 (e.g., PEL-Asses Level)
 6.3.3 An applical auch as a losis, and Lor explosion occurs that results we a potential.

NON-LABORATOR's OPERATIONS
 NOTE: See Appendix & for "Complessor Chrokin;"

This excises outlines the engacements that apply to not laboratory areas. Non-inhomotorareas reclaim field operations: prior plants, machine shops, construction shops, and prim shops that one, handle or store handless than the character. This does not apply to officer and other sense but do not like the label or store handless absorbing to the character.

other stress that do not use, handle or store baractions

7.1 Non-Laboratory Area General Requirements
7.1.1 List the lacersform electronic present in the work area. Each group or

711 List the hammforer electronic present in the work own. Each group or department is responsible for keeping, a current for of hammforer sheems used in non-informative areas.

T.I.2. The formast be checked against the syntable MSDSs on the Information are mining, contact the che award supplier or the Safety & Health oppmentative.

7.2 Hazardeas Non-Bootine Traks

7.2 Hazardena Num-Houttee Traks
T.2 Feriodically staff members are required to do hazardena unco-routne tas Page to techniq on melt property, supervisors are copiand to account the

still resolver is given scherention, social extraveg as required as IEET interpand bently progress and as required to hasher systemator or designer shows and hazardate shoread or processors or which they may be exposed in hike convents and the med journey lank seckeding.

12 Protective president such in vessilation, professory personner, the protective of modern suff president written operating procedures and

presence of souther suff member written operating procedural and exergency procedural that and be taken to prevent or reduce exposure.

Trek	Potgrand Hessenko Hazandova Chergoale
Cooffeed Spece Cotry 1	Oxygno deficiency; exposure to touch mesocycle fire and explorion.
Work on New or Experimental Equipmental	Steed congst Electrical, mechanical, previously,
Chemicals in Unlabeled Paper	Honordous elements and gaves carned in the

7.3 Outside Contractor Personnel 7.3.1. The Safety & Hoofth expressioning for Facilities will be the proper contest.

7.3.3.2 Procusations the contractor's personnel should take to be on the

3.3 d. Outmin continuous mans editors to the solute and health executions upon that in

NO THAINING

S.1. Flowers, HAZCOM and Lab Standard Transland Treasure received he due Lab Standard for unners) special to performed for all

E. J. 3. The Joseph and excelelates of Material Sofies Date Shoets (MSDNs). E | 4 Methods and observations to detect the relasse of lausardous characters in the

8.2.1 Rater to cockon 7.0, Non Laboratory Operators, for intentions resource.

SA REDCE AN REALIST

 Resources Properties Dependent SULCIP-600 Laboratory Flood Program Sild-GP-004

- . BCO Greates Usale 1340-1 Based Control-General . Diagnostics of Chemical and Reducative Works and humbar EN-GP-007

Appendix & Comelines Checkfor

DANA O New York Committee classes on the DMIA PPE Swadard. Choracal hearty

Written percentures must dettel how the product late will excepting a hexardous character.

HAZARDOUS CREMICALS 2. Provingers for additional people for people for work with the following consequence

· Select Concurrence

5. Keep the containing alread to the extent normals to record as recorder the release of

Battette

Battelle Science & Technology International Sofety and Industrial Hygiene Program

Tele	Personal Protectors Equipment Program	
Number	\$116-PP-000	
Revince	•	
Oviginatori	Stephen William	25 Jan 101
Approved	Selety and Straith Representative Land Carlot Carlot Donald Carlot	7/22/04 Date
Reviewed By-	Manager, Safety, Houlth & Exergence Response Cort Piercessag	3 /83/p4
Appresed By.	Manager, Quality Monagement Systems & Tauaum White Section Materials Residence Completings	7 (22 (04 Day
Appresed Ry.	N Jone Planter Year Presented BSTI PSHAO	7/30/24 Dise

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Salar And Salara Mad Rygam Person.

SER 99 001

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78 PROCEDURE

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23 PRE Saloch in.
24 two-villust Transman.

DESTRUNC MUST O

		REVISION HISTORY
Rev. Ma.	Effective Dute	Discription of Reviews
0	CE)11/04	Discussed re-issued under new numbering system. I Previous Number STR

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This programs extended to provide guodence for compliance with the requirements of the Compational Safety and Health Administration (CSSA). Standard, "Cannol Requirement, Amond Protective Bug printer (PPP ''30 Code of Admil Regulations (CPR) 190.0132 and subsequent PPS regulations in the action of the CPP).

2.0 SCOPE AND APPLICABILITY

This program applies to all swills Science is Technology Interactional GISTI) shalf unchange magained offices and find e-pentitions and to all contraction performance work on Bistolia property or as behalf of Bistola, this program adolishes are recomm performance requirements. This program does not include herizing protection, majoritary preferches. PPE mod for full protection or learning production. These stores are covered on other programs.

PREBEQUISITE

2.1 Training New employees warking to lefts shall be provided with basic PPE awareness bistoning. This is

4.0 DEFENITIONS

Personal Prefective Equipment (PPE): clathing and equipment provided to employees to prevent optics from identified workplace Insurfa.

OCCINCI DOS INSUSTING WITH PRIOR PLANTS. S. BEGULATOR TAYOUUNTARY STANDARD REFERENCES

Repaired 20 CFR 1910 122
 U.S. Department of Labor OSHA Steederli "Eye and Paor Protection" 29 CFR 1910 LXI and

A distinct N-bond Studieds Intitate (ANSI) 287.1 Occupations and Educational Eye and Page Protection

 U.S. Department of Labor. OSHA Standard "Head Protection" 28 CFR 1910 135 and ANSI 280 1, Standard for Industrial Protective Holmets

 U.S. Department of Labor. OSHA Standard "Foot Protection" 29 CFR 1910138 and ANSI 241 1, Personal Protection - Protective Pootweer

U.S. Department of Labor OSNA Student "Head Protection" 28 CFR 1910 (38)

Heffelle "Sale Work Prophose Handbook" (Lybest Revisses)

O RESPONSIBILITIES 11 Safety & Health Personnel dress

 Safely G Handin Departmental and
 A sent camagine supervaces and project staff or conducting latered survements and classifying proper FFG.

charalying proper PPS.

61.2 Some employees receive training on the PPE they are expected to use

61.3 Fenodavily review update and evaluate the overall effectiveness of the PPG program.

na Managers

- 6.2.1 Stature has and assessments are completed for physical axion and projects under their dispersions to characters.
- 6.2.2. Ensure that all affected staff are preparily trained and qualified to use must on and stoce the PPS they are expected to went.
 6.2.3. Ensure nor models PPE to making analysis.
 - 6.2.4 Ensure defective or demaged equipment in immediately replaced.
- 12 Project Managers

6.3.1 Secure hazards assessments are completed for assigned projects. 6.3.2 Secure staff secured to respect these PPS transport hand on the hazard assessments.

- 64. Employees 6.4.1. West PPE as recurred
 - 6.4.2 A tend required tricings
 - 6.4.3 Use maintain and stare PFE as required.
- ** HSTI ESHIGO Training

incurs new employee safety or

- 6.6.1. Contractors shall recove a capy of this program. Any questions should be directed to
- the Battello coelect.

 6.6.2. Contraction may be related to provide a copy of their PPE program under hexaed assessment superman of the section to be necleared to Budalia memory, or as behalf of the section of the se

mile.

- PROCEDURE
- PPE alone should not be relead on to provide protection agreest hazards. but should be used to on synaptes with engage-ening methods, and administrator controls.
- conjunction with explaining controls, and elementative could be.

 7.2. Hazard Assessment endor Line Managers and SSH Representatives Stall Destrole

 7.2.1. Each work place or work activity where Buildile employees are emposed to hazardous
 - conditions shall be re-deried to determine the need for PPB and what PPB is necessary

 7.2.2 The 5-alway and Huslift Representative is conjunction with the MiningerSupervisor or
 determine shall be shallow and pained or actual work considerious jeb conjugations or
 actually to deliversion with PPB is necessary.
 - activities to deluminate what PPU is processed. So a Appendix A. Sar energies of beautifulness.

 12.21. Heard superments shall be documented. Sight Next, Plant and Sandard Opening.

 Proceedings are examines of documents which may be used as document has and
 - internazione. Per regionatione fisi do not have as internal method to document ficial SIH FM 427 Personal Protective Equipment Hazard A sessiment Certification may be used.

NO.4 When work place conditions, playered languages makerals to use or activities change

23 PPE Selection

7.3.1 Selection of PPB shall be based upon provision of a level of protection equal to or

732 The OSHA students in the retempte section include specific covarients on level on

promorate, by reference standard, that elevate remember it may be organized 7 4 Specialized Training T.A.1. The of PPE that would special and training wall be provided at the time the PPE in

rayard to or selected tor affected employees.

7.4.2 Ratherann shall be provided if an employee demonstrators deficiency in uson or carron

for PPG based on information provided in previous training

Water or checkney

AD RELATED ODCUMENTS

A poenda: A. Guidelines for Conducting PPE Hazard Assessments Constant a walls through survey of the same or question. The purpose of the survey is to identify

Sources of high tremonitums that could result in huma eve price or agration of perfective.

 Source of light redictors, i.e. welding brigging culture, furnices heattreating high selecting Sources of failing absects or potential for decoming absects. Sources of militar or reaching absents which model creab the feet.

In addition, invest-codect data should be any seed to belo adentity problem seems.

· Sources of motion, i.e. much may be processes where any movement of tools machine

. Types of chercial esposages.

statement of some

Blectroal baseds.

. Communicated and sever

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THEFT

Appendix B. Catogories of Personal Protective Equationest and Selection Considerations

front inquiring, mediating, nearry sark, socioething, sessing, srattarq, disastarq, poened featuring, and sending	reyenty request, meres, the control of the control	portaction, goggles, face shalfed for notice [1]. (2), (3), (4), 10) For swere espisiere, ire faceshashi	
HEAT Flavouce operations, pouring, coaling, hot dispains, and votiding	Hot sporks	Freeshields, goggles, spectacles with side protection. For owers commune use faceshield the notes (1), (2), (3)	
		Procedual de vors over peggles: See redes (11),	

Innerspent of Record

Frahertina

shades gas welding 4-5 cutting 5-5, breazing 3-4 See note (1)

		Sea notes (1), (2), (5)
	Splanh from molton motals	Proceshanich worm over coppler See notes (1), (2), (3)
	High temperature exposure	Broom foce shaelds, reflectave face shaelds See notes (3), (2), (3)
DEMICALS - said and chemicals browling, degracesag, plating	Spil each	Depples, eyecup and cover- types. For severe exposure, use face shaeld See notes (3), (33)
	Irratetung masta	Special purpose goggler
DUST - vendes/Ling buffers, sporre) shaly	Baismee dast	tengles everup and cover-

Optical radiation

Welding heleets or welding

LEGIT and/or PASSATERS -

Weldern Electron her Octacel reduction

Welding gapples or welding face shield lynical shades gas veidure 4.0



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	Operations	Vm m	thate	Protestave*	

Operations	Unitrie Sin-	Asc-Curont thate	Protecture
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Ole metal are welling and fluc or sell are welling		Latt But 90 90-100 140-250 200-550	7 12 12
Con targeton on welshag		Tanz Sun 50 50-150 150-500	0 13
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Levison C

		160-250 250-590	10
Con targeton on moliting		So 130 150-500	0 13
All carbon Also creitag	Light. Herry	1.481 ft-11 500 500-1906	12
Plante or Relias		Larr flux 33 20-130 100-400 800-900	6 8 33 11
Planne are entiting	Maken** Heary**	200 400 400 400	3
Took being Took sallering		=	3

Operations	Destric Sans	Anc Current Shade	Frederitar'
Cut wolding			
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Huery	Over I Cl	Own 127	
Corpora esilena		_	
Light	Doller 1	United 25	- 2
Medzon.	166	25 to 150	- 4
Hapry			5

The a price of channel was win a book that we have been a borney per me when specify the part of shadow shadow which great or the world have a thoughput a high visition to play that of channels be to use a fally large that almost the politics or solution have or the venible highlight the typectronal operation.

 $^{\rm ext}$ These values apply a how the artial are welverly seen. Expression has shown that lighter fillies may be used when the set as Julien by the week passe

Head production. All limit protection Dallmets in discipled to provide protection from request and pass baseds caused by folling objects liked protection in this available which provides protection from site stock and how. When selecting lead protection, leaveleding of particul described hauseds as superiori.

Clear A behavior as advisors to report and previous previous previous descinate as ampounds.
 Clear A behavior as advisors to report and previous noncolation resistance previous electrical particular flow voltage confusion (Day one proof which to 5,000 volta).

 Clear F hadron's as oblitate to respect only prestration regardency, you relie observed protection from high variance conductors (they are proof tended to 70 000 with)
 Clear C hallowing provide respect and promising assembled from one requiry peaks of alternation with high control flows are required promising.

 Class C behinsts provide expect and prominents marriene (flow as omally reads of aluminum which modules (detector)) and should write read amount obstocal housely.
 Prime fallow obsert housels are remort, behinde meet by work, force representation without window obser-

conform who are raining bails and insultantial which could fail, working around or under converged fells which is according parts or restricted a wedding below mechanismy or processors which respit came restricted or objects to find and working on responsed enviraged conformations insolve anomalized or description for which like all protections shall not anotherly executional are compositors whereforecases housings mechanism and requirem glassifiers and page fits a mechanism and conformation or compositors whereforecases housings mechanism and requirem glassifiers and page fits and the conformation of the conforma

and stated parents of support where the support where the support was a support with bandlers and washiness laborers.

First protestion "Script where and boots which tweet the ANSI ZAI 1991 Shadded yet made both support and conceptuous yet receives. When measures washing when can be obtained which purels processor, the same washiness relationally protected which the procedure of any other parents obstated or shadow.

constants or combining within binness would be opposed for company or burning restrictive states and before the company of the

on ty improvem natural, a standard by the for which fact problems about the rentardy considered are drapping and recovered calcular shock clothe conjenions electronics machines to inchesize of reporting plant-hose and page littles structural transition that who there are unables of provide transitions and allowers proposed inches procedured and the value of another procedured transpared procedures surveyers would not allowers for problems and inches procedure and described beyong any and described beyong the procedure procedure and control beyong the procedure procedure and control beyong the procedure and procedure procedures are procedured and procedure procedures.

are taking peer operates to seryine it orders assisted trepletanders partners and queents respons traffer coming of the Opera wedness to the handlers and variations liaboured. Hand y relatables [Glosse or after rather upon to prevent cells alreaded before and does contact with elemental field are appair for causing local or systems offers federing formal response CEHA variations are already only to the control product as present and the control product and control of the control of any after size of the control ang s bloom yn lann us yderloeng yn dans Sec

Her also expectant to lower the performance elementerature of planes mixture to time specific human leaves and on a grain and human leaves to the leaves to the performance characteristic should be accounted by more qualitative for proceedings in the performance performance of the majority should be present for time and performance for the majority should be present forcementation from the mental southern the time planes moved for appropriate institute should be becaused to the consideration for time solution in mental invokale.

(A) As long as the performance characteristics are acceptable, in certain conventances: if may be cost-offentive to requirely charge charges plants than to reconsiste expensive types.

(8) The work activities of the strategy should be studied to fetuping the decimal of Anthonis in

With supert to selection of planes for protection assert channel b

(A) The text properties of the classically must be determined any articular the ability of the classical transactional social effects on the slaw and/or to pass forcigly the slaw and come problems; effects

(8) Cosmilly any element mentant glove can be used for day previous

somewor on the hand of the others and component with the destroit he additionals have some rise possible for selective to conver active supershaunt through polymerous motionals.

[10] Engliques month-adds to resource the gloves as such a manner as to prevent that continuous hors.

(D1 Englispess month—able to resource the gloves in each a manner as to prevent this continuous-box.
Other broad enhancement of gloves methods:

Fighter – Made of cellum or fabrica Handa powersly used to emprove pop when heading aligning objects
Also help available from reald head or cold.
 Landier – Orneally used to praid appartment peace from specim or sensors apparent cough send-one and at construction with an emphasical source when working with destinator.

tion is constitution with an internal about when wrong ways internally.

He and mody - United to prefetch them accederate outs and contribute. Until when working with critical both or other dury welcoments.

A homomorphism is maked at delensorated fallows and desired by architects bound from outside both.

Battelle Butters of transact

Battelle Science & Technology International Safety and Industrial Hygiene General Procedure

Respiratory Projection Propedure SIRK-CIF-01D II Environment, Safety,

M. Anna and Anna and Conta Phononers
 Verseaux D. De Processor P. W. B. Branch Green
 Management Structure, Statistics
 Management Structure, Statistics
 Management Structure, Statistics
 Management Structure, Statistics
 Management Statistics
 Managem

Serting SIH PP (III) Fevery that to the retires

Spirit Triba Meser

REVISION HISTORY

NHISTORY

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The purpose of this procedure is to provide guidance for insense of work cross, to establish personnel responsibilities to insense proper selections usage and materiaciae of inspiration preserving on personal read to establish in mechanism set that decrementation of those activation is accordance with applicability regulatory requirements and accepted work practices.

This procedure-pipes to Bettelle Science and Technology (interestional (BSTI) including reposal ethors and hold operations.

20 PROPERTORISTICS

31 Transpo

- 2.3.1 For the lade and effective use of respectory protection equipment it is executed that the user he properly instructed in its purpose exelution use and monthnase training must be provided by a qualified individual. Prior to being assigned a magnitude nearly expended near must have an appropriate training in the following:
- 3.3.2 Requirements of the requirem procedure unclading responsibilities of securited performal.
- 3.1.3 Notice of the based of
- 3.1.4 Exposure control meta
- 33.5 Suitability capabilities, and invalidates of the pureous exposter to be used.

 33.6 Recommended burdens encourages a superconte
- 3.1.7 Have to dee and dell'enquestry protection equipment properly undividing positive and negative pressure user soil checks.
- 3.1.8 Requirements for respective, storage insurins and cleaning of the respective, 3.1.0 Respential cartridge replacement frequency.
- $3\,1\,10\,\text{The same recall decrementative competency by passing the given trust with a score of 80% of greater$
- 3.1.11 Refresher training will be given saxually. Retrixining also is required when a periodic importion reveals madequencies in the staff member a knowledge or use of this member.
- 3.1.12.A otherwater to use respiratory protection equipment will be revoked by the Safuty and Health Representative or designae of selective triuming is not satisfacturely completed.
- completed.

 32 Medical Evaluation

 3.2.1 Medical common is required for those who need to was required or protection.
 - opupment. Staff will not be permitted to year re-peritors in BSTI operat without a current medical attracent approving such use.

use. The intervals for engagement on, i.e. established by BST i He, ith Services. Remorfless of the frequency of expressions. Health Commencer movements

3.2.3 The Moderal Brahadar will do one of the following

3.2.1.1 Approve the individual for unrestricted use. 3.2.1.2 Approve the individual for restricted use and describe the restriction(s)

3.3.2 Fit testing is performed by an explained and vidual in accordance with the

appointed by the BSTI Salety. Health and Emergency Response Manager. 9.2.3. Each different tree of so resident medication enumerant that uses a forestore to

SCHA') works are has recorder ready. Alterna forecasts of stuckt and 3.3.4 For APRIC a pufficient number of styles and upo, will be made wealthin. The stuff

3.3.5 Fit technolocal be perferred at least assaulty for staff who person active in the Respondent Protection Procedure. Fri testing also will be repeated as pecossary for

AS DEFENITIONS

The following definitions upply only to this procedure:

Expowers I. must—Permissible exposure innet (PEL) as defined by the Occupational Safety and Health Administration (OSHA) as an employee a exposure to any substance

ned Heddik Admisstablem (OSHA) is an employee a represent to any obstant haded in 19thin 2.1; 22 and 23 and say ill bower work shift of a 6th burst work. Week which shall not exceed the it burst trate wrighted swings it not given the first shakes on the haller Bipporum have also may be expressed in terms of ceiling concentrations. The American Conference of Governmental Industrial Hyperican while lates reconnected express trains referred to an "distributed".

transfillable Bengerous for Life or Health (DL ED—A in https://documentable.com/contribute of any beng commerce in physical solutions that passes in immediate format to like or would ensue introverable or older of selected but passes in immediate format to like or with an individual is about to ensue prime in diagence in amoughters. Little see

29 Code of Federal Regulitanes (CFRI 1910 134 gr 30)

Oxygen Befixens Atmosphere—Oxygen deficies intoesphere mosos en «tmosphere with oxygen content below 18,5% by volume.

Protection Factor (FF)— The number congred to induct the opposition of a responsive to of first a certain degree of protection in terms of fit and hiteriorizingly prostration. (Various accesses one session PFs.)

Q multitative Fit Test - QCLFT) — A misseconcent of the infergoing of respirator for by determining whether or not an individual using the respirator can differ the tasks or installation of a continuous settled conflict the vicinity of the user's

Q manifesture Fit Test - (QNFT) — An accument of the solveyacy of responder fit by memorability assessment concentrations of a challenge open inside and outside for fiver precess. The ratio of the law measurements in a mobile of lawlage of the soil believe the suggester five piece and the sacra's from.

Responder—Responder Ordersche Responder—And deriver proteins by NIOSR and the

trobulatus el l'autriul continuentatio. Disposable fifering lorgence nel un pressuration qualit bubble son, not flores that in en inclusiful presentation de wom over on un supplying responters on ejecufically included even when usual for portius, memorano continuentatio. Exclude or SCUER, and apparal models. Notes Surgical marks consort be used on a malestatus where requiremy profet con is product.

4.2 The following definitions can be found in the BSTI Glossuy

5.2 Nuclear Regulatory Communicor 10 CFR Part 20 "Standards for Protection seasons." 5.3 NIOSH Guide to the Selection and Use of Particulars Resounters Corpfied Under 42 CFR 84

5 4 NIOSH Guide to Industrial Respiratory Protection.

5.5 The Occupational Environment - Its Evaluation, Control and Management Chapter So.

5.6 Compressed Great secretors G. V.I., "Commodity Specific-tons for Air."

6.1.1. Ensure that the applicable Salety and Health Representative reinformed of any 4.5.7. Theory that shall make their paper year are as blind and based once to seven

6.2 Safety and Soulth Representatives 4.2.1 Macetain debal and current knowledge of socialistics standards requirements.

anymount contributions and mad practice offerings and and effective use of DISCRIPTING

6.2.2 Trainer implementation and effectiveness of the procedure and make necessarisdators based on those evaluations. 4.2.3 Stallade shiff emosure and work conditions includes modern impections of

eggament (e.g.; custridaes sorbents and custedpus (bused on appropried work

6.25. Zevers in consummers with revisions and that staff are exposely trusted and father

4.2.5 Visitly that breathers we recommends for supplied we expended see appropriate

6.2.7 First site and central work conditions or activities to determine what respective

400

63 Safety and Health Advance

d.3.2 Inspect and manuface SCBAs located as general words of King Avenue and West Jeffensor selec.
 d.3.3 Manuface reservoir fit testing expansions and variety of recognitive protection.

equipment.

4.2.4 Grounts documentation of mantenance and impectors recently of requiritory

6.4 BCO Health Services 6.4.1 Determine marked frinces for warming one.

4 42 Utilize the USAA - approved medical questions in CB CFR 1900 134 A mendia Ci or expending form.

4.4.3 Provide medical or klashou to appropriate Line M-langers and Safety and Health Representatives.

6.5 Respirator Users
6.5.1 One mustase inspect, and store respiratory protection equipment as instructed to meet the procedure requirements.

 a.S.2 Inform BCO Health Services of my personal health problems that could be aggreented by the use of responsory protection equipment.
 a.S.3 Inform BCO Health Services of my changes in health or physical characteristics.

16.g. excourse is regist changes discharse deformation invaling from accidents, preparing etc. that could affect be use of a majoriter.
6.f. 4. Wirthy Sulety and Health Representative of any changes to reconstant usage.

working conveniental process regulations and laboratory protocols etc. so the the use of the requirity may be to evaluated.

4.0.5 Permits paper to Saloty and Health Expressioning or encapyment on others

7 0 PROCEDURE

Hazard Costrol

Lise Menagement and Safety and Herida Representatives shall work to develop exposuring and/or educate factors controls to section the need for requiring protection equipment.

protective equipment.

Hazard Appendies

2.1 Each work place or work activity where BSTI employees are exposed to hazardee
condition, that he evaluated by the reconstructive Salety and Health Recreasinghore

7.2.2 Identificates of housels should reclude that is not knoted to consideration of the following stone 7.2.21 Authorse continuously in resease

7.2.2.2 Sagmoning or administrative controls in place

7.2.2.3 Other potential hexards (e.g. opyons deficient stresphere, confined

7.2.3 Parards assertments shall be documented on Ports SDI PM 027 Personal

7.3 Respirator SolveSton.

7.31 The Safety and Health Reconstrictive or material desarrate shall become foreface

7.3.2 Representative and extend shall be NIOSE pertained per 29 CFR 1910 1340ds

observed harberts. Selection criters that must be considered include the following

7.3.2.1 Emergency attackers?

7.3.2.3 Continuous concentration greater than the exposure local

7.3.2.4 Continuous convenients a previor than the 101.3 level 7.3.2.5 Oxyges deficient ideosphare < 19.5% oxyges by volume (v/so 10.1H)

7.3.2.7 A demoks warrong properties... taste order syntation

7.3.2.8 (Named state of continuous) continuous or materialities

7.3.2.11 Work recombinations (physical activity temperature/service) 7.3.2.1.2 Put test results to \$600 event respension must be selected if the one

7.4 Maintenance, Inspection, and Core of Respirators 7.4.1 Any supplementary standard counting procedure, (50Ps) or ambooks governing magazitar use will include instructions for the mantenance and over of presumtons.

inspectors shall be conducted by a qualified unity dual to assure respirators are recognize used circogni and stared. Terms reported to recentmence care use and

000				
	7.41.1	Inspection for disfects (fronjecos condition earticópic)	heelikada, volvas and	

7.4.1.2 Clearens describeting and decontamienting before and other use 7.4.1.4 Stars to protect from distance continues and dust explicit extreme

Emergency Remember Manager, shall starks repairs and replace parts, using parts

onlighted for the inspirator sind subsected for the by the basis specifically studented.

unstructions received during training and fit testing. Respirators that depend on a

7.4.3.1. Facial harr in the said spec 7.4.3.2 Byrolas temples extending through the seal area.

7.4.3.4 Protective clothene in the soul area. conference and shall perform normalic semechanis in various the corte face are because

of one or hade, but are not brested to Senath of house the recovery a worse, analysis transportion in one of use hourship in any of use, and extended arrangement

user shall be about on a schodule to replace the currentage or at 60% of the manifolds life expectancy for the selected controlos. Also manifolds entroloss well 7.451 If the prescried ed'S measures use limitation is exceeded

7,4,5,2 ff breek@gragh is detected 7.45.3 When the end-of service life inductor shows the cartridge is expected as

7.455 When there is well-oubly increased heathing resistance or

7.4.5.6 If the certridges have become disneptd.

7.5 Voluntary Use

7.5.1 Voluniary use of an AFR is permoseble if the individual is Salety and Houlth Representative approves the see in writing iFects SH FFR COC, Voluniary Respirator Unit Voluniary uses in set allowed for any other type of weight ray processes in a supplied on respiratory zoon as relatived if the AFR in hold is determined to oracle a baseline.

Observations to create a season.

7.5.2 Voluntary use is allowed only when the use is requested for comfort reasons by the employee trees the Stoley and Stockill Representative who will determine the appropriateness of taxing as APR. He all not be approved for exposure to losing substitutions.

3.5.3 When represed BSTI will provide the approprise NIOSH approved A PR to be used. Explayors will be informed that the A PR is to be used only for the purposes for which it was reused and that they are to decontinue use of the A PR it they.

AFF. If the occurs they must report to 0.511 feeds 5 environ immediately.

7.5.4 The Safety and Health Representative well accurs that the employees requesting an AFF under few valuebles growsome here record a medical cleanates to went the respirator. (A. medical cleanation is seen that the respirator.) Are medical cleanation in a set needed for a fiftering frequency. The Safety of the last few remaining work means to the the confidence parts of the second control.

Society recommends the proteodors were usual to the company of most and used to the comment of t

7.6.1 OSHA (29 CFR 1810 194) requires that respersor users have been (1) neclosity evaluated to determine medical titbees for respector use. (2) properly tracted in use core and implainess and (2) properly fit bound.

3.6.2 Namely not Batelle stell are expected to bring their even respirators obtained through their eventy are respirator procedure.

3.6.3 Namely not Batelle stell respirator procedure.

7.7.1.1 SCBAs we available in areas where a good for such component has

emergency use. In addition, SCBA a may be rested or purchased for

specific projects. A Substruent Health Representative prost comme 7.7.1.2 Daily radiovales by specifically broated to you SCEA empropert you do

the divisions to which they belong. Regional affices and field

7.7.1.4 At a negroups, SCBAs must be respected monthly and after each use. sufficiently technique

7.7.1.5 SCBAs use a portible source of concurrenal or delevered thorach a suppoly for the cylinders is provided by ensurfaceused vandorund result ment the requirements for Grade D or higher quality as our forth by

7.7.2 Air-Line Resperators

7,7.2,1 Att-line respirators are available in areas where a need for each equipment has been recognized. The six from required sents are Representative must approve the purchase and use of any breathing air stratums to ecoure that they must the repulmentals set forth to OSHA is

7.7.2.2 Coly redendants essentically treated to use our line stemplers may do

7.7.2.3 Monthly inspectors of those located in ground area of King Avenue. and Woul Jefferson are the responsibility of the air line respirator over received by the expensionals dromen. Remarks officer and field

P-000		
	7.7.2.4	At a maximum surface assignments must be expected manifely and offerent base. A mustly they must be flow checked per manufactures assignment assignment as assignment as a second manufacture assignment as as second manufacture manufacture restortants by a substitute of action must be by-developedly based and organization uses the manufacture restortants by an endoated to the formation.
	7725	Air has requestes use a statuency source of composed air delivers through a logh-grossure bose to the respiraler tecqueen. The air supply tar air line respirators must meet the tecqueent of for Gode 1

Suscindony Dischection Prespect

79.2.5 Air line requiration and subsciously source of companies for delivering single-line high pages has been the superins' prosperor. The ser supply to real line requirates want need the requirements for closed or happen quality as set forth by Companies of God in source of God in Commandate of VI. "Commandate Systemication for Air." If commentation supporting this wife to make a few or commentations of the commentation of the commentati

Brodding our compressors reast be equipped with appropriate filtratum and incomoving devices (e.g. curbon indominate and immperature alternal)

nicros)
7.8 Reguest Offices and Faild Operations

Reguest Offices and Field Operations
7.81 The Safety and Health Representative may delegate an explanated and reader about the control of their recovering. The Safety and the

Representative well directly evaluate till off in the requests for performing in testing any one off with integrating periodicing procedure. The Softly and the told. Representative well versaly and document the qualifications of it is indicated at a moderated as to conduct fill tests and to mature key other responsibilities.

procedure responsibilities.

2. The body and Heads Representative will propose the procedure resembly to receive of friends on the regional time of the might be an offer regional affectives distinguishment of the procedure of the control of t

Name of Records Record Media Location Retestion Feriod Premateria Transag Medical Evaluation Permittent. Extensionly Response Voluntary Use TSIA 172 SCRA Terms

EXHILO Central Rifes

Permitteet.

ESHAQ Cestral Fries Represent Schedule

SORELATED DOCUMENTS ESTI Operator Code 1340 2.1 "Resourches Projectors

Supportery Distriction Prespect

APPENDIX A Resourator Cartridge Service Life Determination

Opposition providing life registering will be up based as arbeited relative hazardally dissert interest hazardally dissert interest place of contrast participation of the construction of

Methods for Determining Useful Cartiridge Life for Varying Conditions of Use This is a complisher of methods for determining the useful life of organic cartiridge.

respondent. Sideot a method that is conservative "reproducible and suitable for the needs of the workers. Use or all-die manufacturer's information concerning service life see warmable orbitoes.

Manufacturer's Supressed Researcher Changes Schoolslee.

Carindge life estimates as resultable through some manufactures? Wieb pages. Use the following internet indirector to find internetion for some manufacturers:

• 3M—www.thr.com/englasfety—Then clock on Batablashing a Chemical

- MIA www.ma-del.com/efstrands.ta/ceth/s/ndsz.tom/
- Others—Check the Web page of your particular considerace.
- OSHA http://www.sebs. slugoviSLT Conspansusy_afreserinafs_modellyces_ noise_model feecutive_data/decorpies_clob.idm.or

Rule of Thursh Method

In Chapter St of the ARMA publication. The Occupencest Environment—Air Enchantes

Constant and Management is "right of thursh" in presented for extracting outputs types.

- cettrige service (in. The suggested rule of thank is as follows.

 If the chemical's beging point as 730°C and the concentration is less fone.
 - 200 ppm the expected service life at 8 hours at a normal work now.

 Service life is inversely proportional to work note.
 - Service life is inversely proportional to work sale.
 Reducing canoristation by a factor of 10 will increase service life by a
 - Humadily above 85% wall reduce service life by 50%.

Battelle

Battelle Science & Technology International Safety and Industrial Hygiene

	Program Plan	ay great
Take	Selety and Health Management Program	
Number	SHH FP-300	
Revisias	0	
Ongustor	Donaldo Cagh. David Cagh Merager, Salies, Heath, & Terreporer Store	1/1/04 Dem
Renewed By	Mark Jockson Manager, Regulatory Complume	0/4/04- Door
Reversed By	Cast Reserving Menager, Quality Management Bysters A. Trenny	ft/5/ori Doin
Approved By:	M J. E. J. Ger. N Joseph Gerzen V Joseph Gerzen Vace Provident, BSTI ESHAQ Systems Management	11 14 104+ Dece
Соесителог	Trang Stone Over	ilejet

MATE NO. 11 ECOPE ARD APP. ICA HILITY

PROCEAN REQUIREMENTS..... PROGRAM OFFECTO ES

Safety and Idealth Management Program

HARAN DAY OF THE PARTY OF THE P

ROLESAND RESPONSIBILITIES..... Tracerna New Yorkson 1979 Von Francisco SSE Onder or in Science Services

Langer former Management Server Heaves and Engager Processes

NETER SPOR EVALUATING PROCESS SPECIFICATIVE SESS. TRACEUS ... PROGRAM ARTESIMENTS A CONTY

PROGRAM REVIEW A SSOCIATED PROCEETINES AND PORMY ARTERIOR & DETURBURED MATTER DISPLAYABLE STORY SEVERY COMMITTEES

Mection Date

Description of Revision Replaces RCO 22 001 formation of a Cales-

. .

Brakely a consensated to established and manistrating indirections: 12(1) and coopsessable these face consensus. Brakels emproyee topol 1 6 fer recorded Sorby and Health Fragmen deber 7 in 8 faith for pelloy to copy with the historians spart of all conventional and the contract of the

This program is applicable to

segment bothered. The plan detailers trivided attentioners whether treatment and design-our respectful from the contentiabilities and detailers werk practices necessary to protect staff. Societies and the public.

This program is written to describe how BSTI intends to comply with applicable regulatory and/or valuethery steeded requirements.

 Occupatocal Safety and Health Admiravirusos (OSHA), General Industry and Construc Standards and references contained thomas

Ohio Panc Building Code/Ohio Pine Code Nichonal Day State Ohio American (NESS) | make this should not be a facility of the Code

- B stielle Opening Guide Sorton 1300 Environment, Safely and Health
 - static Upenesis Orice Section 2200 Environments, sarely and Health Penetron.
- Battelle Safe Werk Practices Hundbook
 PROGRAM OBJECTIVES

The objects on of this program are to

- Describe the event) measurement of Sately and Health (S&H) for BSTL
- Define the key elements and processes of S&H employed by BST1
- Define key (xles and responsibilities for implementing \$6.01
 Provide the framework by which BSTI will comply with Bottelle's Corporate Fallay on

The salety and health program provides a fromework for hazard identification and avalant no

5.1 Hazard Identification and Evaluation

5.1.1 All opposed new proyects within RSTI one closed through the interreted Risk.

\$1.1.1 As a part of this process, proceed staff are asked to complete as No manuel Edets, Health and Quality (ESH&Q) Rak A seewheat

Constrongers to already usy elements at the proceed project with 5.1.1.2 The orespleted proposal scope and questionnaire are necessed by

concerns are horsely directly to the effection of the project staff 5.1.1.3. To send report staff in presume the ESHAO section of the Internated

Risk Assessment questionnum during the proposal process, quelance in 5.1.2 Upon project waved or instation, project staff accorded to the project are

corpie mentation of all society requirements (sections 5.2 and 5.3)

begands. To address this IRSTI has personal subject matter expert contractors at

Safety and Hoalth procedures within the Safety and Industrial Hypsene Maxial

5.2.2 SETT SSUEC SM well records SESI subsert multir armorbia and surrent and 5.2.3 Each SSTI remanation code will have a designated S&H Representative from

to identify salety and houlth concerns for each site and users in present respicate that the Hartelle introduction for S& H Reconnectatives.

5.3 Documentation of Safe Work Practices

Winter sale work practices to identify safe work processes and procedures to the performance of process, will be used to document and communicate crafter town and inferentian to staff. These resp by in the form of Ctondard documents. The tasks or datast identified in the safe work practices will assist in detreaming the training and qualification requirements. Appendix A provides a

working group is wide ton to documents inferreded in 5.2.2. Project staff and the S& H Representative well work together to ensure proper requirements and

5.4 Committee Review and Approval

5.4.1 IESTI will establish subthy communities to fricultate subthy program

5.4.2 HST1 will establish a Safety Steering Committee overseen by the Vice review operantics for manufactor basseds not covered by other valued matter

5.4.3 The Salety Steering Committee will be made up of representatives from Salety

Management Security Human Resources and appropriate milited matter expects as peconstant 5.4.4. As a madeline, projects pergre review by the Salety Steeran Committee when

 A potential agents for exhibition of appointments or contact with gives yappen nacticulates, or larged whose treat here the large and have not have sweathered or

Work product assumption to the production of a high product restand or when

rankness receipting a stock stocked agreement and freelates described for each

be exposed to a based indice than routine traffer basenish arround from a Operations of a type that prepares present as paddoxied above, occur in a bacility.

this is newly constructed or soletants illy sizered.

A polyabil costs for secrebons ravolving higgins associated with the following when conducted in uness set operationally or previously unproved

> o. High dructures o Unusual electrical highests

o. Working on over 12 or peer bodies of wider

o. A conveyer a hostile assumements and inspales and warranees

5.45 At the BSTI level appropriate subsect matter expert communities will be established to address your fir project safety concerns. Each of the subject matter

description of the current subsect matter expert committees as provided in 5.4.5 Operational Safety Committee, will be eatablished within product lines. The

management in establishing the consingtive and serve as a subject suffer expert 5.47 The Operatorial Sylety Committees are expected to

 Increase safety awayeness and knowledge e Mentify opportunities for improvement

 Sook appropries on safety matters e. Actively communicate safety

6.0 ROLES AND RESPONSIBILITIES

All BSTR shiff are expected to contribute to entail intogs and maintaining a safe and healthy weeking contropment. Written procedures that identify program requirements exclude specifiresponsibilities. The following relies and responsibilities have been defined for emplementing this second.

I.I. Executive Vice President BSTI

- 5.1.1 Provide active landarship for effective implementation
 5.1.2 A summa regional billion for the safe querill greenton of BST1
 - 6.1.3 Frovide a safe and healthy working environment for BST1 staff
- 6.2 General Managers/Division Leadury
 - 6.2.1. Ensure program implementation and compliance within the division
- 6.2.2 Take ownership of the safety program within their division.
 6.3 Non-Frenkfunt, BSTI O perations 6. Systems Services
 - 6.3.1 Provide S&H support to the Buckston Vice President BST0
 - 6.3.2 Overse the Environment Sufety, Houlth and Quality Systems Management for HST1
 - 6.3.3 Excure B-stelle stell are provided a bookly and one environment

 A. Non-Resembled, MARAO Systems Management
- 6.4 Vice President, IISHAQ Systems Management
 6.4.1 Ergam understation of Battelle and BSVI solver
 - 6.4.2 Provide 56 H or cought support and assessment to facilities effective operations and identify regulatory compliance requirements to earlier management to meet
 - that responsibilities

 6.4.3 Essure development and measurement of ESH6Q place and applicable program

 6.4.4 Righthinh and oversee spension of the Salety Streams Committee and establish
- 6.5 Line and Support Management
 - 6.5.1 tenglicment sately and health programs writes their respective organizations.
 6.5.2 Bissure staff engage Sti H inscentors when the level of expertise required is beyond their knowledge.
- 653 Steam staff in their size of responsibility receive accessing tricking
 6.6 Safety, Health and Entergency Response
 6.6.1 Receive disorder to the Vice Provident ISSHGO SM to receive cacheset written
 - "A perture in the development emplomentation and everight of S&H plans and program.

technical support for explanamentag Salvig. Health and Emergency Response progress.

6.6.3 Conduct solute and inspectors to help communicate with and educate project shift on SALV to move a salve were expressed.

6 d 4 A sust project teams in entiring and pre-planning for safe conduct of projects 6 7 Staff.

6.7.1 Work safely nt all traces and munition sale work conditions as accordance with sofuly procedures

6.7.2 Mike suggestion for safety improvement

7.0 INTERFACES WITH OTHER PROGRAMS

The S&H Management Program reterfaces with the teclinaring programs and or functions within BSTT to makin Comprehensive amplementation of S&H requestments. Each of these statistics helps to ensure BSTT is ability to conduct and deliver spullty products and services that meet or

Exerconnectal Protection — ensure sife removal of hausdress wests from laboratories and solutification of agenticated environmental imports residing from projects or operations.
 #ESTL Could's Management Systems and Transport, approin document cooling in process.

BOTT Quarty recompenses by sects and a namely - person occurred course, recommensations, and address training
 BOTT Regulatory Compliance Management - caucar travely identification of new qu

changing regulatory coincid since in thickfule universities a selo existing programs procedures.

Reduction Sufety — provide review and everaght of projects and operations using michosches surfaces.
 Medical-Health Survices — once the medical response to must us and distances common on.

Symptomy and Recovering in the proper shapeon to appare that it is seen and select from the selection of the property of the selection of

Facilities : review design and construction of facilities and interface on facilities maintenance.

 Purchering – establish and implement procurement procedures for hazardous materials or equipment.

 Propositification to - ecoure again and S&H baseds an identified during the proposal stage to ensure secures are included in the project before award.

 Human Resources - thereughly identify jeb requirements to select qualified and copulate candidates and identify jebs requiring local factorizing point to employment. I west — we was ESTI mesonkers when appropriate to course complicace and provide intermetation of regulators or other remineracity

This plus us a high level document under which more detailed Sufety and Health General (GP). Specific (SP) and Enument Procedures (EP) define specific program requirements. To to suggest the prognet and procedures.

ES NETRICS FOR EVALUATING PROGRAM EFFECTIVENESS Method will be used as indicators of pragmen effectiveness. A limited number of both level

History will be defined as procedures and soorly instructions. Teformation collected from these became hours and safety commutes participates by management. Lagging indicators include

8.1 All new BSTE employees will receive a new employee safety countstion.

basic safety steeps It is Additional safety traceing peggar-meets may be along find as EST1 program plans created.

... 8.4. Safety tricking requirements implemented to substy clanic requirements will be

10.1. A passage strained public engaged for regulatory consphenes will be specified in procedure. and work contractions.

and not laboratory transmit offices) weeken source at least tense a year 1.8.3: A max understoning faculties construction/reportshare/demail:too well be evaluated to Renow was a Committee Winds tens Section 12 St Section on swinty review of Sechten

locations will be estated assess to

11.0 PROCEAM REVIEW

13 8 ASSOCIATED PROCEDURES AND FORMS The following documentative system and soft the province

. ECO PP 600 ESHSO Truspa Program HRS MN 001 Human Subsects Research

. BS MM BY Badabas Safata Massall

. EN PP 003. Environmental Macagement Plan.

SIH MN 601 Sidely and Industrial Hypothe Mazzal Documenta

STM FM 171 RST/ Bulk A presented from for Businesteet/meditection Work

swithousane. In addition, the checklest may also be consulted must be research smooth blengto.

Does the present or bok resolve proposal harvets such as

Hazardous chamicals (tonic carcinogenic pyrophenic corrects...)

Reactive or explosive chemicals

High pressures e.g. pressure vessels operating above 5 parg High temperatures c.o. above 600 F

High electrical valtage/amperage e.g. above 246 x160 amps. Other high stored energy exemptions, e.g. flywheels appropriate supported weights

Managines structural tests

High structures including model evoted work ladders and scatteldings Confined spaces

Other near-scotting reductions may EMP encountered radar, II

Risklomes! pethocean or DNAJENA work forming risks had a principles walled/appealed sources risks examined Prohable exposure of the mobile to above hazards

Providing a product or system with operating instructions and precautants to Providing ESG H or regulatory recommendatures to chara-

Farestres sommers and or westons Operating powered industrial vehicles

Powder attacked twols

Werking with axionals

- Safety Review Committees (see A mends, RVS, It so, contact the committee
- - increase of maney or fundings.
- Do not of the above i checked) stores require an increase in time for process training of state etc. additional equipment for perfective devices or controls, or tachbase for
 - D. De soy of the above i checked! hexards result to ususual disposal or storage costs

 - dispectually as the critical and physical angles reduced the accuracy and reduced the models was of
 - Submit BSH6 Q Questionnice when completing the Integrated Risk A ssessment Proce
- Is equipment to g glassware vessels piping machinery etc. I designed and sized
 - DESTRUCTO? Directly report resolve the use of warboney, each as forklifts creases lather deven-
 - agrapment of the life are appropriate controls in a procedures training of a raphical Are other project haractic (e.g. chemicals, chemical products a lectural hazards
 - guechanical hogards use of redioactive materials etc.) revolved

 - te represente emergency agagment (e.g., for extragashers sately showers electron) cut offs, workleams, stall close up lets, etc.) in place and service, his based on the
 - De scientified bazarda, or exte work practices, radicate the need for any of the tellowing?
 - . Property toward and resideful remained to use you accomment or market serv-
 - Premarks information staff of safe work concludes unchading conveniency responses.
 - tise of proper personal protective distingt and empressit.
- Stone and removarious to expresses sensing and disposal marks. III. Protect/Open/pasal Stage
 - Are purpolic inspections necessary to ensure sate facilities (e.g., conducting monthly 50 H inspections of the smaller including checks of the fire extinguishers dreach boson
 - Are sale work precious and procedures sudged to exage they are being tallowed?
 - A m newtons modified when madegade or as poembors dictate?

APPENDIX B BSTI SUBJECT MATTER EXPERT SAFETY REVIEW COMMUTATES

Budancel Califor Connection

Reviews and approves all recently activates and apecific practices for handling basisgness materials

raclasing organisms at the biotalisty los

Human Subports Committee
Reviews all meanth activities in which humans are to be used as subjects for experimental
remodernment humanises.

procedures or treatment and includes querbossources that are to be used to sample opic reactions, or collect other deal from humans.

Institutional Broadety Committee
Reviews, all assemble extracts and specific produces for constructing and handling recombinant DNA
molecules. The committee will also review work with committee will visues configurate recombinant

necessity. The commune will also review work with equations and virtues confirming recombines DNA molecules. Laur Saffer Commutate

12.1.1 Provides general overaght for the Laser Safe socident savestigations recommending corre-

Pressure V cord and Systems Safety Commuties

Reviews pressure vacatis and systems when pressure reviews when the pressure reviews and systems when the pressure reviews and the pressure

or greater vacuus and systems when it als or games with the following pressure an

 Luquid-continuing units (e.g., by direction) operating at 1000 pag (pounds per equare units grape) with no regard to volume.

Cas continuing unds (e.g., extoctives) that openies it is paig innument. A NT meet the
pressure reliance tector (F V F) of is paig outlier greater. The P V F is extend sed by
makeylying paig by calculated.

For exception the following pressume, and volumes, meet or curved the P.V.F. of 5 pag. cutt. 5 pag. gi. 1 cubic test 16% 10 pag. gip 15.5%. 40 pag. go. 0.125.5%. 2000 pag. gip 0.1005.5% ref. vol. 20 cubic. Cuttle Cycles agreement gloslow 5 pag. of any case are not considered pressure varieties or systems by the Committee.

Radiological Safety Committee

The Radischen Salety Maneral IRSMI includes a detailed list of projects and nitrations that require review by the Radiological Salety Committee. A sig projects or operations using adiological maximal should commit the SRM to determine of preserve as noteds.





Incident Reporting Guidelines

This list is a guideling to determine whether an incident should be reported in some cases, this list still leaves room for interpretation because it is difficult to state definitively which academistrationstems should be reported Contact the Safety and Health Representative with questions about what

The following should be reported • Any accupational injury or illness:

- Charmeel or basicagesia gelatriziesses that require emergency response or more than the individuals involved in the inodent to clean up (a.g., calling upon a HAZMAT team to clean up a spit).

 Charmeel or basicagesia gelätriziesses that have the potential to advantable offer litatella SEAH Members, contractions violentia, parties.
 - the surrounding community

 Any unexpected fire
 - Any unexpected explanary
 Near masses with the potential to cause adverse health effects, serious.
 - injury, death, or property demage
 - surrounding community

 I noderts or accidents that cause property damage to Battelle- or clared award innerty.

ATTACHMENT 2

CONTRACTOR QUALITY CONTROL PLAN FOR UNDERGROUND STORAGE TANK INTEGRITY TESTING AND ADDITIONAL SITE ASSESSMENT ACTIVITIES AT SITE 14 SOUTH

> FORMER NAVAL AIR STATION MOFFETT FIELD, MOFFETT FIELD, CALIFORNIA

> > Contract No NGPTI-01-0-6009 Task Order No 0087 DCN BATE-6009-0037-0003

> > > Prepared for

BRAC PMO West 1455 Frame Road, State 900 San Songo, CA 92109

Proposidia

Batielle Environmental Restoration Department 545 King Avenue

February 13, 2000

	DETRODUCTION							
11	Backerwood							
1.2	Scope of Work.							
Section 2.0	PRODUCTORGANIZATION IS	ESPONS	BULT	YAND	POBE	SOF	ONTA	77
21	Figneful Project Manager							
2.2	Daulity American Officer							
2.3	Heraflert Officer In Charge Of							
2.5	Project Engineer							
2.6	Piold Teory Louder							
	Propert Quality Central Human							
54								
2.6	Punk of Contacts							
Section 2.0	DEFOLUTE PEATURES OF W	FORK						
Section 4.0	DRAWINGS AND SPECIFICAT	move						
Serbon/S 0	DESPECTION PLAN							
	Coordination and Matual Units							
8.3	OC Merkens							
5.3	Prenandory Phase Inspection							
	Follow Up Places Leepechene.							
57	Impection Documentation -							
Section CO	DOCUMENTATION							

Serbon E.O. REPTELENCES

Final COC Worker ASP Company Testing

6.3 Conference History and Conference History

Edward Sale

Section 7:0 NONCONFORMANCES
7: Necessification (Imm.
7:2. Deposition.

Table 1 Parant Team Morelan Contact Information

ATTACHMENTS A technoord 1. Delection of Authority Letters

Table 2 Technolis Desired of Week

ARREST SATIONS AND ACCOUNT NO

AMA	Activity House Analyses
coc	Contractor Quality Control
DON	Design Chance Nation default le fection of work
PCB.	Theid Ghorp- Forpant
FED	Clame specialization detector
PHENC	Forter Wheeler Sprutemworld Corporation
HASP	File-22 and Sinfety Plan

DANSE Send Substy Plan

 SOW sending vices-femmed waste

 NAS Moral Aut States
 NASA National Americanists and Space Administrations

HCS. Monconformazio Bisport

OSSIA Decognitional Sefety and Health Administration

ECOM Promote Conductional Manager

goodity assurance goodity assurance goodity assurance officer reality content

SDECC Resolvest Officer on Charge of Countries USE Recombal Propert Hanager

Stanylong and Analysis Plan.
Sale Health and Earlety O'Book
Standard Operating Procedure

United States Army Copes of Engineers

Festive 1.0 DETECTION

The title specific Contractor Quality Control (CQC) Film satablishes the procedures and marked to is supplemented for the field activities of title 14 Sectle, Fearer Nevel Act Science (SASS) Matthet Falili Caldernia.

- Broken

The ratio specials GQC Plan as an apparella to the Addendate No. 2 in Sate 14 South Cornective Alabor Plan and Associated Work Plan and well be reduced in as an identicate to the Prior Plan High Contractive Conference Contractive Conference Contractive Conference Contractive Conference Contractive Contrac

den.

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conducting groundwater sampling affection

States 2.9 PROJECT GEGARMATION, RESPONSEELTY AND POINTS OF CONTACT.

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regression short a provide in Prove 1. The regressibilities and authorities of the large securities in Journal of the following property. The Mind Fachion Engineering Command (HAVFAC) Goodwork Enmoltad Propoch Managem 1979 I for they appeals to the Wisson Doctor. Doth Rev Care Mondows and No. Dovel Sandwar the co-

Omeor (1990)

The Bathelle yeap-transpager is Mr. Chen Zenneemen. Mr. Ross Weemsh will serve as both
for prepart engance and the Trayent Orachy Control Monager (PCOM Land Mr. Rashert Jamony will serve
as the Palic Trayen. Lander and the "monager that (India)" of Serve (Mr. Mon (SERVE)).



Ci Kotema (rije: Amager

solverhan performent under than Winde Plan, and the streamenthal energistance. The 1979 is shatnes and stationally recitation

Pedianney project runaperant for the Hery

- Environg that the project coops of word requirements are
 Drugwage the project cost and acharbal-
- Prevaling formal technical direction to the Stritelle project team, as smoled.
 Onebits Assurance Officer.

The QAO or the Herry represen

melanch-seguand OA measurems are as place and effective for the work performed. The OAO or define others by reclaim

- Reverance and reparating Sorrafting and Analysis Place
 Providing Nerv concessive of the 3-strolle CA Proposition
- Permiting pully-midded directions through the Contracting Asymmeter
- Prevoluge Sedmond and admirantative encomplet of Earthille served lance works activities
 Acting an point of conduct for matters pretearing to prevention and maintenance of quality.
- Acting an point of conduct for making perfecting to provide out magnifestatic of quality of data.

- into

 Authorizing the corporate of project execution of QA requirements are not adequately followed.
- 2.1 Brodest Officer In Charge Of Canadamaton

The RODGE shell has the persony seasonals into corporate on sate QA and safety oversight of contention. The RODGE staff createer a dates and authority rectails.

- Vorifying that all width has been completed per contract and technical operationhom prior to final pronouncest acceptance.

 Professions for making acceptance to concern fair the contractor a COC measure or as
 - performing organic field imperion to venty that all work is no compliance with both motivated and before a performance work members with the ENAC Container that Other
 - 1050) or the presentative regressive that a house surfacement is an array's moreover.
 - Intencine wife the contractor's PCCM on quality related sorous
 - Becommon and arguing waste monitorin or the personaler's representative
 Becommon Contractor Dudy Reports for completeness and accounty
 - Afterday preparatory place and place pro-final, and food acceptance organizate.

 Abundan would GC markets.

Propert Manager

The propert reasspars a suspectable for the desertion, resections, and extensivel completion of propert balls as a size to achieve overall propert quals. The propert reasures has suspectability for and the authority to formed all suspenses of the propert measuring technical, conclusions, and all acceptatives arteriors. A deletion and measurement-between collections for failure our arteriors.

- Coordinate week activities of subcontractors and Watelife personnel and committee all personnel albert to the almomentum; and technical sequencement of the propert.
- Macrice and report to progress or well and success separates on the progres.
 Macrice and report to progress which work and arrange that the progress deleterables are provided on terms and within a re-set-bad out.
- Mareter for holigations schools and rataly the characters and the programmentary of only changes that may require advancementation actions:
 - Enter afference to the quality requirements of the contract, project scope of week, and the QC Flore
- the QC Flori

 Enterior that all work moves the supprensants of the technical specifications and entuply with applicable codes and supulations

 Enterior that all work activities are constructed as a soft manner or accordance with the
- Entree that a war accordance age conserved in a said majorer in accordance with ear Sith Specific Health and Earlet Flan (HASF) Styley — Jughly and Health Ma said (EM) C Now for AST (remote Vision

a. Common the resource contest between the Nave and Wattally for extreme and references. Coordinate satisfactory resolution and completion of evaluation and acceptance report for

Propert Engineer

The propert engageer dates and responsibilities exclude the following

- Economical engineering and design activities are technically also are understood with
- dispersion property continuous assessment from technique content or memoratures and Debensor appropriate system requirements and arriver fast groups are completed.
- Manufact records on received by state professional recipiencing manufacture recluding.
- Polit Young London

- . Dancton taki contraction loader labor export reported and enforcements
- Mantaging workets validate and recipient
- Preserve duly analysis and washing states must along with a mortile commany.

report and seturating forms uphotology meets Project Quality Control Hawager

The FOCM as remove his for countly request property of accrect OC and property to the program morumer Assumptions between and recurrenced the automated POCM are provided as Attachment 1 expectably. The PCCM has the enthants to stor work on one related rooms allestons the enables of the work performed and Straffectors the correction of all responsionance work. The FOCH will be on tale at

- Implement the time phase of control (preparatory until), and follow up to across that all presequents have been completed poor to the start of and it every such applicable default-inclaim of work DEPH?
 Schellede and combact DC mentions to crease work stales: Commits mention assessed.
- Merciar QC celevises to council conformation with authorises procedures outstand operations are conformation with authorise procedures and methods of cultures are conformation of conformation of conformation and conformation of conformation of conformation and conformation of conformation
- content questionizare required standards named proclams and mediants of que correlatation.

 Be separatible for recurred and aparterization of the NCD.
- Remain that all on six and off-six properties tecting and complete on performed in a conclusion with the plant specification and applicable online
 Propulse procedure and conduct or concerns before and samples.
- Revenue and anomators records of approved substitute Demoys. Change blobses (DC Not for correlatation and volume and Pauli Change Enquests (PCRs)
 - Depot submit drivery banding and storage in accordance with technical specifications
 - Uplate as had dawrops for assume certification.
 - urformsham only or for approved

 to the complisher makin on makinal approprient, work implices and with munching
 - Direct the material of work, modernal, and represent the part and an ecomplosion with place and operationhers:
 Enromatisably they any responsible with that done between participation of the specifications and
 - Inform the OCM of all prepared charges: concern positions and any denature form
 approved plan. The rectains health and self-by areas.
 Inform the OCM and proper consequent of NFC to determined any disconnect conditions:
 and Served the NFCS to the OC measurer to obtain approved or reconnected connection.

Submedianters and Vanders
 Qualified enhantments will be solected to pertails we constitution surroom for the spect. The solecenterior is required to provide latter national and represent recessing to combact.

consists to Hathile's CAACC Flas and the requirements of all approval providers behinded synorhoodsom and continuity providers.

The selection's DC comprehensive for final impaction of flow construction and promites with the Tablella improved and impacting recovers and make must indicate those and

Subminisher promeral on payornish for meximing a hely log of the project school CQC Planter LET (myory Turning 5 Petron

frey perform and for providing information remind to complete the thirdy I/C Report. All important neurals including impaction reports distinguy up sets, and re-any extent of immediate actions will be decremental.

2 B Points of Contacts

 $\label{thm:constraint} Table 1 provides a lated the key <math>N$ at the Berry and septialogy project team runnions and the corresponding contact an example N and N and N and N are the substantial N and N are the s

Table 1 Project Toxo: Mumber Contact Information.

Title	Name and Contact Information
US May Remarked Tempor Manager (SUM)	Wilson D7 VCF NAVFAC Bondorest TAAC P900 West 1400 Frame Ired Bonto 500 Sun Ctupe CA 2010s HSB 502-9020 Volume Land Bonto 500
East spiDitres in Chapp of Confraction. (ED6CC)	NY Guy Nonkers 10000 Notati Balani Asalahi 139, 109 Notati Balit Ga 14005-0008 1800 100 NOS
Construction Management Yard (CMY)	Carol N Esse 6. 10000 Nedah Palmal Asriahi 1000 Nedah Palmal Asriahi 1000 Nedah Palmal Ca. 04098-0008 1400 4608-1008 4400 Nedah 1008
Estella Projet Masagor	Clasks Severence Xidde Hescool Institute SSS Stag Ave Celonine OH 60001 1514: 625-8791
Friedle Publi Surv. Locket Site Dealls, and Sulvey Officer (SHID)	is bird Jamery Turkilly Microrousi Institute 300 Easy Arm Colombies (JM 80200) 10141 (Six Filed Michael (LT 6778-5351) jamery (Filed Six Filed Six Filed Jamery (Filed Six Filed Jamery (Filed Six Filed Six F
Engine Engineeriff repail Quality Control Manager [PQCM]	S you Western. Eather Streement Leithinke SVR Eng Any Colhestine CD4 60001 10341-624-3001

Title	Name and Contact Information		
Holes Euseum Codes, Engineer	Elaulinii I. Wellin (Marko Challe) Chimed Broad Beet Phonomer Ray Berger. 1275 Clip Steed 2 with 1400 Clabinal CA. 54612 1200-1422 CA44 (19 18) Wellin (Markov) and print		
US EFA Perpet Massger	Alou Lae SP A Septen. 15 Survivant dittert, SPD 7 2 Sun Transcur C A 94165 Left SIGN 2 214 Let Signature 2 Pr		

Section 3.0 DEFINABLE PEATURES OF WORS

The DFWs shoulded for the Stir L4 South around water characterisation effort exercise of the following activities:

- Makelanton
- Underpressed storage tech (UST) paying integraly testing?
 Soan locate and made valution?
 Installation of management wells?
- Invalinam of roundering wells*
 Well development*
 Republish decodeminates
 Investment and deposit (IDW) transport and deposit (IDW)
- Location survey of groundwater monitoring wells*
 Groundwater sampling
 Denoishinghor
 - Denotes a task that will be complored by a Foundle subcomment
- Table 2 present an average of the time plane (preparatory great, and foliaw up) reporters process that will be amplemented to excure the quality of the act, when

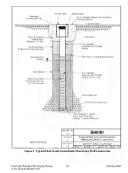
Proposite Imposite	John topodies	Faller on Language
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• A voly de capital de manes le me lans agen et l'express de la disputación en la califact particular de la capital de la disputación de la califact de la volumenta de la califact de la volumenta de la v	Worth the tota good alphanel among is the up on externed in a man effect or wish pre-manners the manners and the first 18. North Commonters Action in Film and a promotion Action in Film and a promotion and the strength of the company or many the common committee in the company of the common committee in the common and	I temporal and worly due the graphymological among wan to obtained on once of more or due to the control of the
Integrity Testing of USIA con		
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Emil CQC For Br UTC Despriy Ten at See 14 Seek McGra Prob Table 3. Defaulté Fourre d'Work Santourel helia bro-ter Fellow on Inspection restriction extension on in or · Fergy count portales conserved language * Verdy fact Uniting and Server Abrillar has a started a recovery of the Several de lour oppigners. In sufficient of and appigners person and Victions and a constant of * Verdy fast suppose on bostonic or Colchessor Associated West Tiles performed to the correct.

The state of the s

Table 3. Defaulté Fourre d'Work Santouré

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Section 5.0 INSPECTION

existing these of subcontractors and suppliers. On expection process and the request resolution is common compliance with the contract. The DPWs stabilish the resources request to succept from the quality of voice performed and compliance with special registrational and residue to properly sortium and verticements platform from quality of the contract of the property and an area for the property and the property of the pro

Section 3.0 and Justici in Table 2

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 - Initial phare
 - Politev up pisero

5.5 Coordination and Historia Vederational in a Nortice

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and hardensta

After the start of field activities. the PQCM will confact OC numbers as impressed by the HOHOC meetings will be below at the properties and will be attended by the HOHOC PQCM and the field to

- silowing shall be accomplated at each cou
- Remove the recenter of the surrouse regulator
- Denor to schelule
- Barolee QC and production problems
 Baronee salists typing: Activity Henrid Analysis (AMAS) and saliety concurrent.
- Althour denve that may require arrospore to the Propertic OC Flori.

The FQCM will conflict propertiesy place cospections peer to starting DPW lettel in.

These cospectators shall section.

- A server of each pumpingh of applicable specification
 A server of the contractables discrement and recomment
- Final CQC Fina for UST Lamping Testing

- · A check to worky florial materials and the expressed how been tested instantial and
- a. A chark to comb flot processor been been made to complete second control.
- . As comparison of the work one to were that all record understance work has been
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SOMETHY BUCUMENTATION

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- Conference Notes and Confermation Holes

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7.2 Disperties

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- Project name
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- Upon delecting a concomforming condition, the TQCM will immediately take corrective

Serious S.D REPERENCES

Assumon Society of Testing and Melonals (ASTM1 2004, Stanfard Function for Date of and Industries of Ground Sector No. otherwise Berth. ASTM Stanfard D 2002 - 04, June Factor Wieeler (Errosponsor) & Commission (PMSC) 2000. Final Stan Mide Controller Guelle

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